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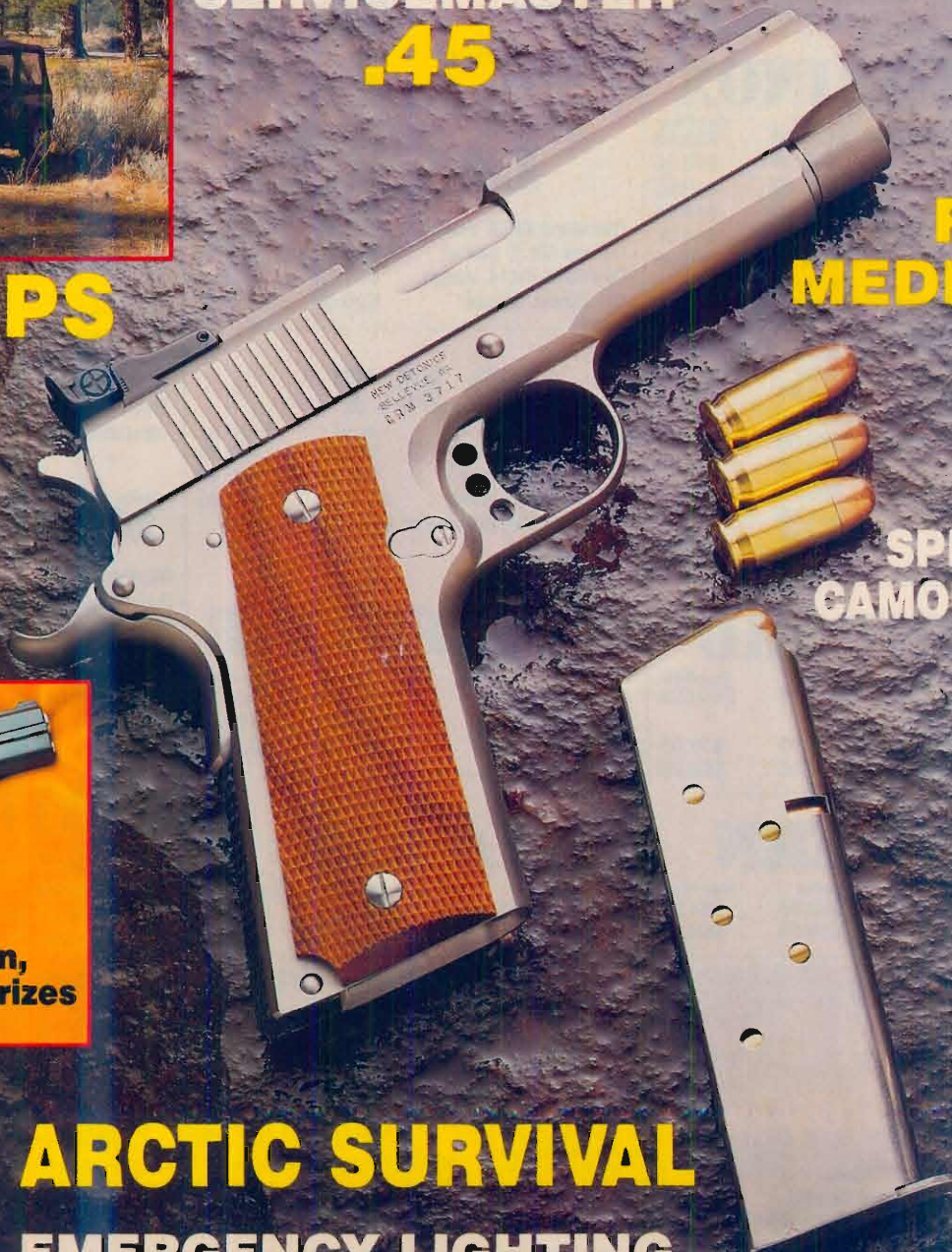
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MARCH 1989 VOLUME 1, NUMBER 3

COVER:
New Detonics Servicemaster
.45: high quality firepower,
reliability & accuracy. See page
8 (Photo by Scott Stoddard).

Survival Weapons

Detonics Servicemaster .45	8
Dragunov Sniper / 84S AK in .223	36
Grendel P-10 .380	62

Survival Gear

Emergency Lights	24
Navy Rescue Strobe Light	43
Battery Test	44
Portable Security Light/Alarm	46
E.M.T. First Aid Kit	58
Delta Raider Knife	78

Health and Food

Rock Medicine	48
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Survival Living and Environments

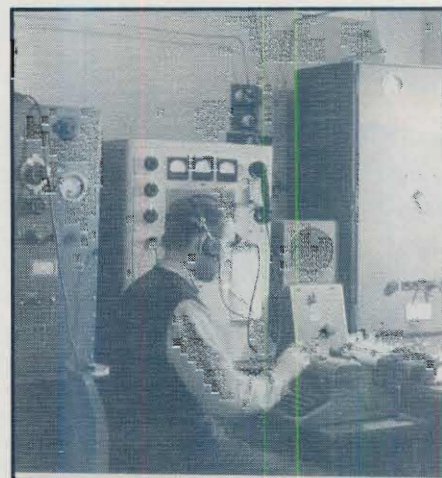
Arctic Survival	18
Gas, Germs and Terrorists II	26
Soviet Military Camouflage	54

Survival How-To

4x4 Driving Tips	30
Surveyor's Beehive Fire	50
Fording Streams and Rivers	74

Departments

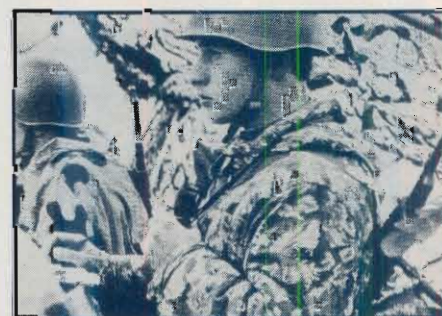
To the Point	6	Survivalist Directory	66
Survival Line	10	Classified Ads	70
Books / Videos	12	Mail Call	71
New Products	14	1989 Giveaway No. 1	72



Page 18



Page 50



Page 54

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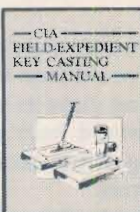


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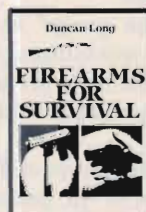


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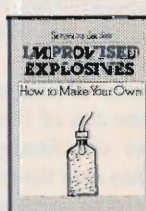
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PUBLISHER
Tom McMullen

EDITORIAL DIRECTOR
Bob Clark

EDITOR
Jim Benson

ASSOCIATE EDITOR
Scott Stoddard

CONTRIBUTORS
Jean Borsarello
Eon M. Fraser
Michael Pietrantonio
William C. Sheppard
James Watkins
T. R. Zimmermann

PHOTOGRAPHIC SERVICES
Don Palmer

GRAPHICS

DESIGN DIRECTOR
G. Wm. Tietgen

ART DIRECTOR
David Vazquez

TYPESETTERS
Lori Christianson Griffith
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TO THE POINT

Paramilitary firearms are targeted by the anti-gun forces. . .

HERE in California, there is always at least one bill proposed to ban or severely restrict firearms in every session of the state Legislature.

The latest session of the Legislature is no exception. Even before it began, state Senate President Pro Tem David A. Roberti of Los Angeles was calling for legislation that would outlaw the sale of semiautomatic military weapons in California. These are "weapons favored by street gangs," declared the *Los Angeles Times*.

Of course the anti-gun *L.A. Times* made no mention of the fact that thousands and thousands of law-abiding California citizens also purchase and possess these fearsome paramilitary semiautomatic firearms as well as the Los Angeles street gangs.

"We must go after the gangs' instruments of death, the semiautomatic weapons," Roberti said at a press conference where he proposed the legislation.

Details of the legislation were still being drafted at the time of the press conference but Roberti said it would be directed at banning over-the-counter sales of such firearms as Uzis, AK-47s and other paramilitary weapons.

While I'm certainly in favor of efforts to keep weapons like these out of the hands of gangs and other criminals, I don't want to see my rights and those of other law-abiding citizens to legally own and use military semiautomatic firearms infringed—particularly if such legislation doesn't prevent criminals from obtaining these guns. I doubt it will keep these weapons away from the gangs.

The anti-gun forces do have a point when they note that there is currently no waiting period required under California law for the purchase of rifles and shotguns, as there is for handguns. This allows felons who cannot legally own such weapons to lie on their application to purchase form and illegally obtain a semiautomatic Uzi, AR-15 or other assault rifle before authorities can run a background check on them. There ought to be some way of pre-

venting a felon from purchasing a gun simply because he lied about his background.

I'm not a fan of firearm purchase waiting periods but I could live with a waiting period for long guns as well as handguns if that would help prevent criminals from getting assault rifles and other firearms.

I have my doubts that it ultimately will, since most of these weapons are obtained and used illegally anyway, but the anti-gun forces are always campaigning for more restrictions on the sale and possession of firearms as a cure-all solution to the problem.

Interestingly, a recent crime report shows that there were 10 percent less homicides in Los Angeles County this year than last but gang killings were up by 18 percent. Obviously, the overwhelming majority of those L.A. County residents who legally purchase and possess paramilitary weapons are not using them to kill people. Killing people is supposed to be these weapons' "fundamental purpose," according to the anti-gunners.

You see or hear that sentiment constantly repeated by the gun ban advocates, their main contention being that people don't kill people, guns kill people.

There is a powerful propaganda war being waged by the anti-gun forces with the aid of our liberal-dominated and hence anti-gun media to promote the idea that most if not all firearms are somehow inherently evil and that they *must* be banned or otherwise severely restricted to save lives and protect the innocent. "Innocents are being killed," declared Senator Roberti in announcing his paramilitary firearm ban bill.

The issue is not that simple. But unless those of us who believe in the rights of law-abiding citizens to possess and use firearms speak out and make our views known, and, most important of all, vote, we may become innocent victims ourselves, victims of the powerful prejudices and propaganda of the anti-gun movement —
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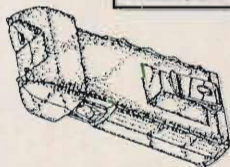
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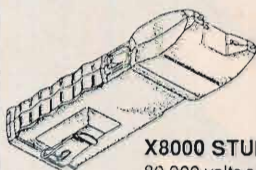


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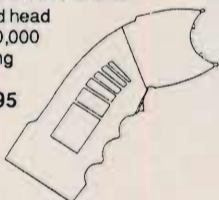


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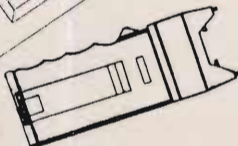
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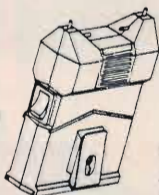
MINI-STUN GUN:

Less than 5 inches tall but full 50,000 volts of power!
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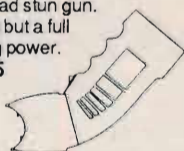
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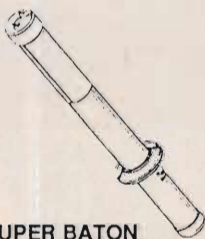
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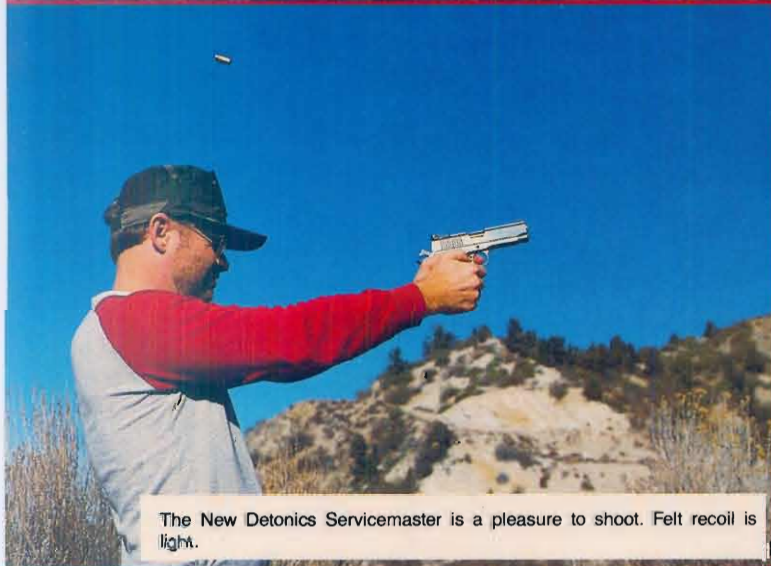
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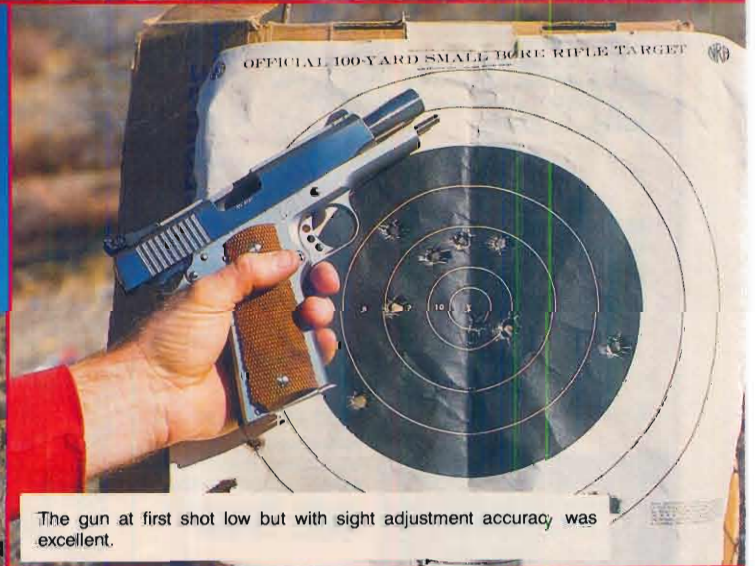
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The New Detonics Servicemaster is a pleasure to shoot. Felt recoil is light.

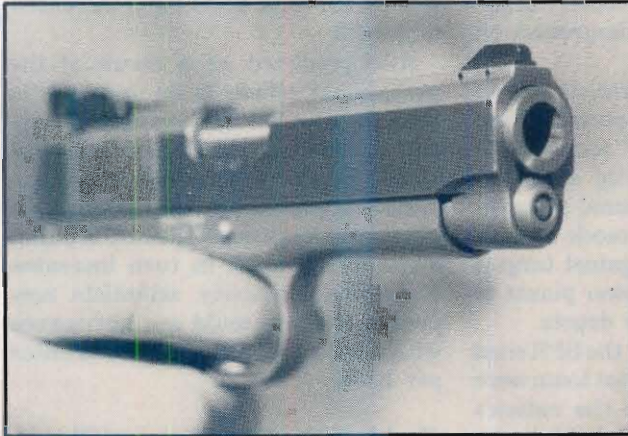


The gun at first shot low but with sight adjustment accuracy was excellent.

New Detonics Mfg. Corp.:

Servicemaster .45

*'Superbly balanced, highly accurate,' hand fitted,
all stainless steel .45 ACP auto pistol. . .*



The patented Detonics coned, bushingless barrel system provides tighter barrel-slide lockup, less moving parts, better reliability and accuracy.



By Jim Benson

NEW Detonics Manufacturing Corporation of Phoenix, Arizona, is now producing the high quality Detonics .45 ACP auto pistols: the Combat Master, Servicemaster and Scoremaster.

Introduced in 1985 by the original Detonics of Bellevue, Washington, the Servicemaster is promoted in company literature as a "superbly balanced, highly accurate handgun" that "incorporates all the advantages of Detonics technology and craftsmanship in a rugged, reliable service weapon." Among those advantages is the patented Detonics coned, bushingless barrel system, which provides a tight barrel-slide lockup, less moving parts in the gun, greater stability in firing, reliability and accuracy.

Another advantage of these pistols is the Detonics patented counter-wound dual spring recoil system which reduces recoil and allows use of a shorter barrel and slide for a more compact and better balanced pistol.

The New Detonics Manufacturing Corporation purchased the patent rights to make Detonics pistols when



The all stainless Servicemaster is shorter than the standard Government Model .45. Here the Servicemaster is compared with a modified Springfield Armory 1911-A1 Government Model.

the original Detonics went bankrupt with its parent company. Of the castings for the Combat Master, Servicemaster and Scoremaster pistols inherited from the original manufacturer, New Detonics selected only those that were of the highest quality, according to a company spokesman. Only 575 castings for the Servicemaster were kept and these Servicemaster pistols are the last that will be made before

(Continued on page 69)



The sides of the slide are highly polished. Other surfaces are matte satin.

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‘Terrorists’ attack petroleum reserve pipeline, greenhouse effect studies increase fears of more droughts, large NYC quake held likely. . .

"TERRORISTS" recently carried out a co-ordinated attack against four U.S. Strategic Petroleum Reserve (SPR), sites in Louisiana and Texas. The attacks damaged or destroyed equipment necessary for the recovery of the 550 million barrel, underground oil reserve.

Fortunately the “terrorists” were part of a U.S. Army Special Forces (Green Berets) “black hat” team, whose mission is to test security at installations vital to U.S. national security. In the past other such mock attacks have been carried out against targets ranging from nuclear power plants to nuclear weapon storage depots.

In the "attack" against the SPR sites 11 members of the black hat team were able to virtually cripple the nation's ability to utilize the oil held in its SPR. The team used blueprints of the SPR's 240 miles of pipeline to plan their attacks so as to create the maximum disruption possible. The blueprints were obtained from a library. The team was also able to "recruit local dissidents to assist them in attacking the SPR facilities," according to a government spokesman.

The SPR was created by Congress in 1975 in response to the Arab oil embargo against the U.S. in the early 1970s. The SPR consists of five underground storage sites which currently hold some \$18 billion worth of oil. The SPR was intended to insure that the U.S. has on hand enough oil to keep vital operations going in the event of another oil embargo or military crisis.

In response to the mock attack the Department of Energy which oversees the SPR program, has begun an upgrade of the security at its SPR installations.

Greenhouse Effect Predictions — Using ever more sophisticated computer modeling techniques, researchers are becoming increasingly alarmed about the long-term effects of the global warming trend known as the “greenhouse effect.”

At the Second North American Conference on Preparing for Climate Change, sponsored by the Climate

Institute, new computer studies were presented which indicate that the chances of summer droughts in the low and middle latitudes, which in the 1950s were about 1 in 20 (per year) will by the year 2030 have increased to 1 in 3.

Also predicted as a result of the greenhouse effect, is an increase in both the number and severity of tropical storms and hurricanes. Since one of the results of the higher temperatures produced by the greenhouse effect is an increase in the rate of ocean evaporation which in turn increases atmospheric activity, scientists now predict that we could see hurricanes with wind speeds in excess of 225 miles per hour.

Shaking The Big Apple — “This is, in some ways, a very timely warning of what can happen.” These are the words used by Dr. David Simpson, a senior research scientist at the Columbia University Lamont-Doherty Geological Observatory. He was speaking about the possibility of a major East Coast earthquake, just one day after a magnitude 6.0 earthquake shook many New York City buildings and the residents within. the quake was centered 600 miles north of New York City in the Province of Quebec, Canada.

An earthquake of magnitude 6.0 occurs on average every 30 to 50 years in northeastern North America according to seismologists. Should such a quake occur along the densely populated northeast corridor the extent of the damage could be severe. "Certainly, older buildings, especially brick and frame structures, could be destroyed. Many of the lifelines — water mains, gas mains, electrical communications — would be disrupted," says Dr. Simpson.

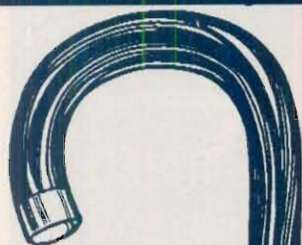
He sees the need to prepare now for the possibility of a major East Coast earthquake. "We should certainly be doing something about it... (We) should be looking carefully at engineering construction practices in the Northeast. We should be working with disaster relief agencies to make sure they are prepared." ●

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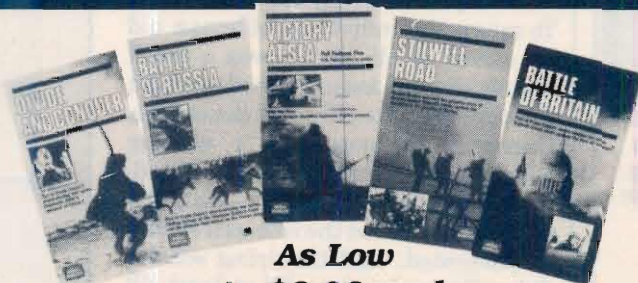
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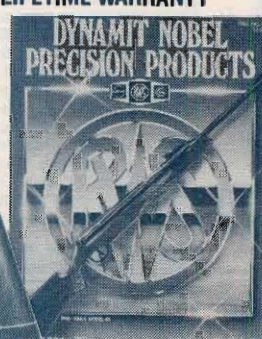


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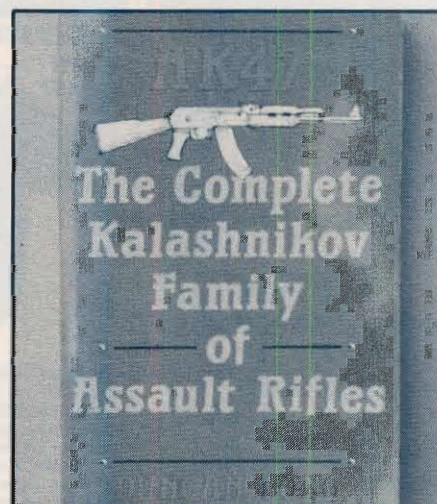
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The Complete Kalashnikov Family of Assault Rifles, by Duncan Long; Paladin Press, P.O. Box 1307, Dept. ASG, Boulder, CO 80306; (303) 443-7250; 192 pages, softcover; \$14 plus \$3 postage and handling.

Germany may have been the first to produce a working assault rifle, but the Russian AK, invented by Mikhail Kalashnikov, has become the world's most popular assault rifle with somewhere between 36 to 70 million rifles produced worldwide. Duncan Long has written a fine book featuring the history and development of the AK47 and the numerous versions of Kalashnikov rifles and design spinoffs including the Finnish Valmet, and Israel's Galil. Specifications, field stripping, cleaning procedures, troubleshooting, and mention of available accessories are all included.

With British Snipers To The Reich, by Captain C. Shore; Paladin Press, P.O. Box 1307, Dept. ASG, Boulder, CO 80306; (303) 443-7250; 460 pages, hardcover; \$24.94 plus \$3 postage and handling.

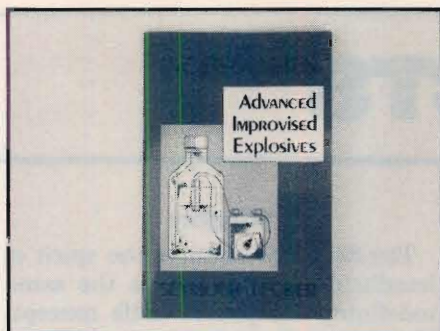
Originally published in 1948, *With British Snipers To the Reich* is an account of an officer sniper instructor in the British Army of the Rhine during the advance through Europe in 1944-45. It focuses on the individual British sniper, his techniques and weapons. Shore's comments are as valuable today as they were over forty years ago: "I maintain that during World War II far too much emphasis was laid on superiority, or volume, of fire — firepower or lead-spattering, have as you will — by the authorities. To many, the individual rifleman did not count at all, and it was a small wonder that the feeling spread amongst the men that the rifle was out-of-date. Everyone clamoured for a weapon which would send out masses of bullets at an alarming rate. . . Only the minority cherished the rifle as it should be venerated. And if sniping schools did nothing else they did at least fill every student with a true appreciation of his rifle as a weapon of precision and of accurate firepower. . . A man who could really use his rifle was more deadly than the average man with an LMG, as I have seen, and demonstrated, many times."



Special Forces Combat Firing Techniques, by Frank A. Moyer and Robert J. Scroggie; Paladin Press, P.O. Box 1307, Dept. ASG, Boulder, CO 80306; (303) 443-7250; 110 pages, hardcover; \$19 plus \$3 postage and handling.

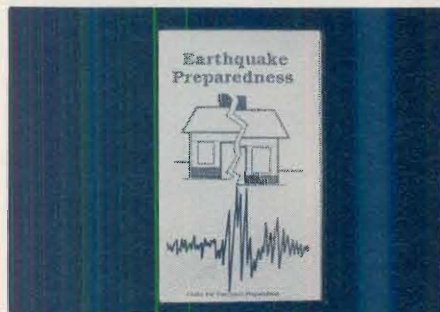
Familiarity with foreign weapons is very important in wartime conditions and may be important in survival conditions where an AK in the mud might be the only weapon available to protect yourself. This valuable book contains important data on assault weapons, submachine guns, and rifles used around the world. Included are numerous photos showing proper stance and firing positions. Instructions on loading, firing, safeties, fire select levers, magazines and slings are detailed and accompanied by photographs that help identify each weapon.





Incendiaries, Advanced Improvised Explosives, by Seymour Lecker; Paladin Press, P.O. Box 1307, Dept. ASG, Boulder, CO 80306; (303) 443-7250; 55 pages; softcover; \$10 plus \$3 postage and handling.

This is a manual for informational purposes only. Federal law relating to explosives states: "Whoever maliciously damages or destroys or attempts to damage or destroy by means of an explosive or fire any real or personal property shall be imprisoned for not more than 10 years or fined not more than \$10,000 or both... If personal injury results, shall be imprisoned for not more than 20 years." A lengthy chapter one details industrial chemicals. The chapter on oxidizers only mentions where to find them listed in other volumes written by the author. Of the four chapters and two appendixes only three devices are actually described in detail, one of them the Molotov Cocktail.



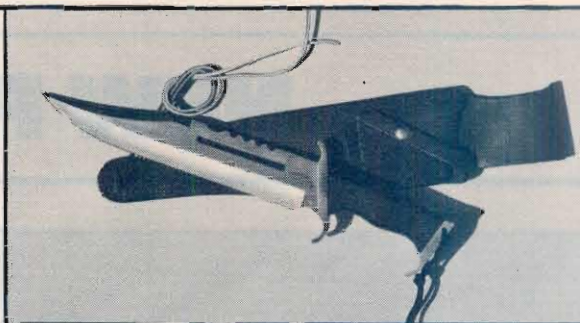
Earthquake Preparedness, a video by the Center for Emergency Preparedness; 56 minutes, \$18.95 + \$2.50 S&H from NITRO-PAK Survival Foods and Supplies, 11018 E. Rosecrans Ave. #300, Dept. ASG, Norwalk, CA 90650; (213) 929-4705.

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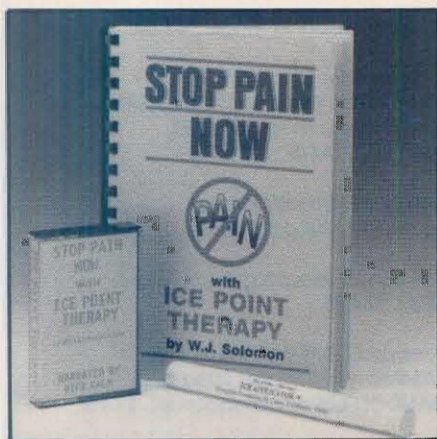
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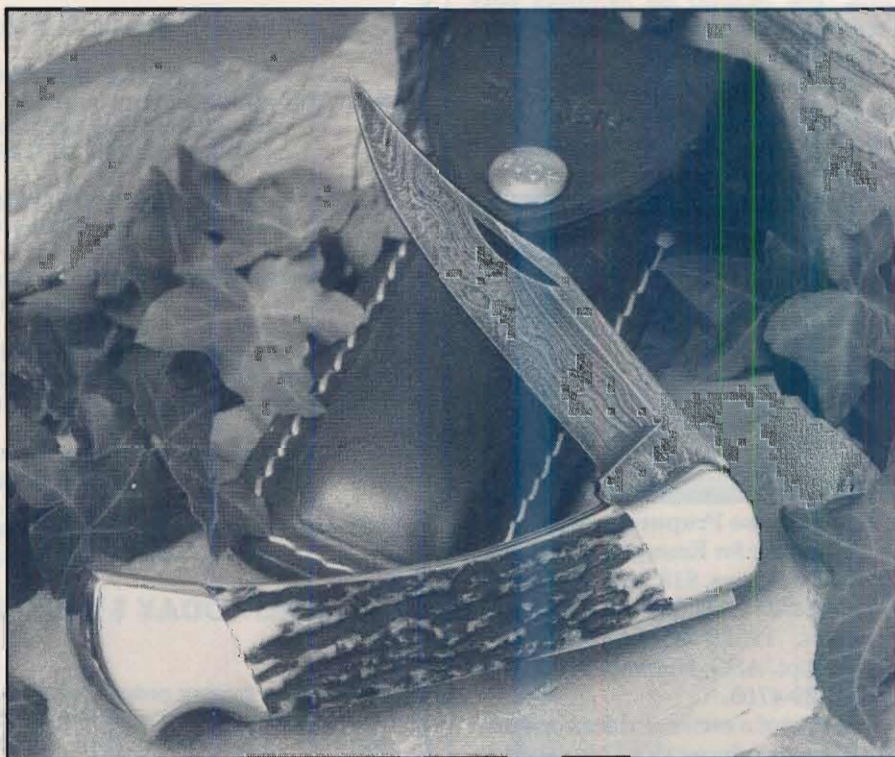
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The Stingray captures the spirit of handheld utility while at the same redefining the pocket knife concept. Holding it in your hand, you'll be amazed at the Stingray's impeccable balance and its stunning big blade feel. The Stingray carries on the SOG Specialty Knives tradition of excellence. Ground from high grade stain-resistant steel, the Stingray's bowie blade is 2¾ inches long. Opened, the knife is 6½ inches long. Weight is 3.5 ounces. Similar in appearance to the famous SOG Tomcat, the Stingray also has the raised point Kraton grip, SOG's revolutionary negative-draft locking system, stainless steel bolsters and one of the best life-of-the-knife guarantees in the industry. Suggested retail is \$49.95. Contact SOG Specialty Knives, Dept. ASG, P.O. Box 1006, Santa Monica, CA 90406; (213) 451-4292.



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Buck Damascus Folding Hunter

Blades made of intriguing Damascus steel, with its intricate swirling patterns, have long been associated with expensive custom knives. Now Buck Knives has created a handsome new Folding Hunter with a Damascus steel blade, staghorn handle inlays and

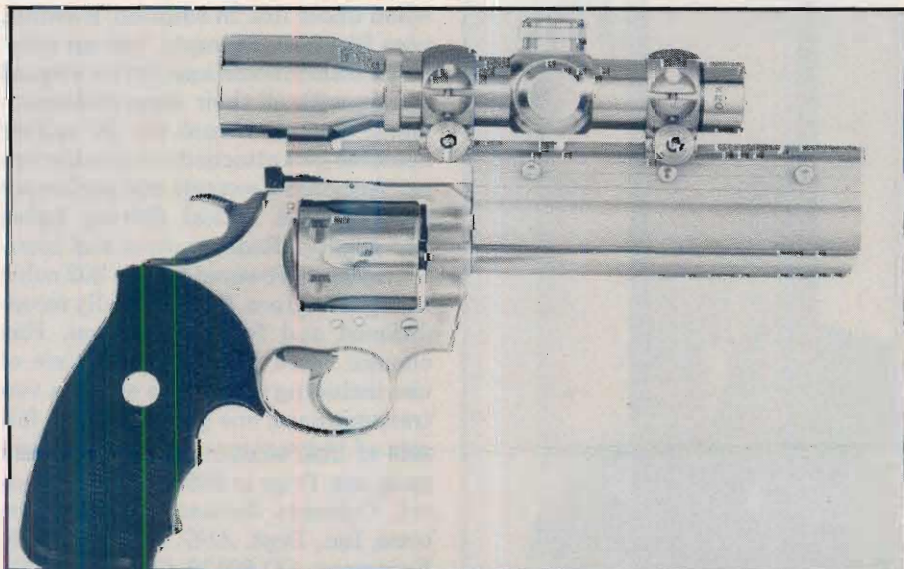
nickel-silver bolsters and liners. The clip blade on this Model 110DM is 3¾ inches long and has Buck's positive lock-open system. See your knife dealer or contact Buck Knives, Dept. ASG, P.O. Box 1267, El Cajon, CA 92022; (619) 449-1100.



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Survivapak's Cordura nylon canteen pouch protects canteens and keeps them at constant temperatures. Features include heavy duty nylon belt loop, Thermo Thin insulation lining, large front pocket with Velcro closure and side knife. Available in black, yellow or blue. Price is \$19.95. Survivapak also offers a very durable hatchet pouch measuring 8 by 7 inches, also made of Cordura nylon. It is designed for small camp axes with 3-inch blade curves and weights between 1½ and 2 pounds. Heavy duty 5-inch long by 2-inch wide belt loop secures the pouch to any belt or padded waist belt

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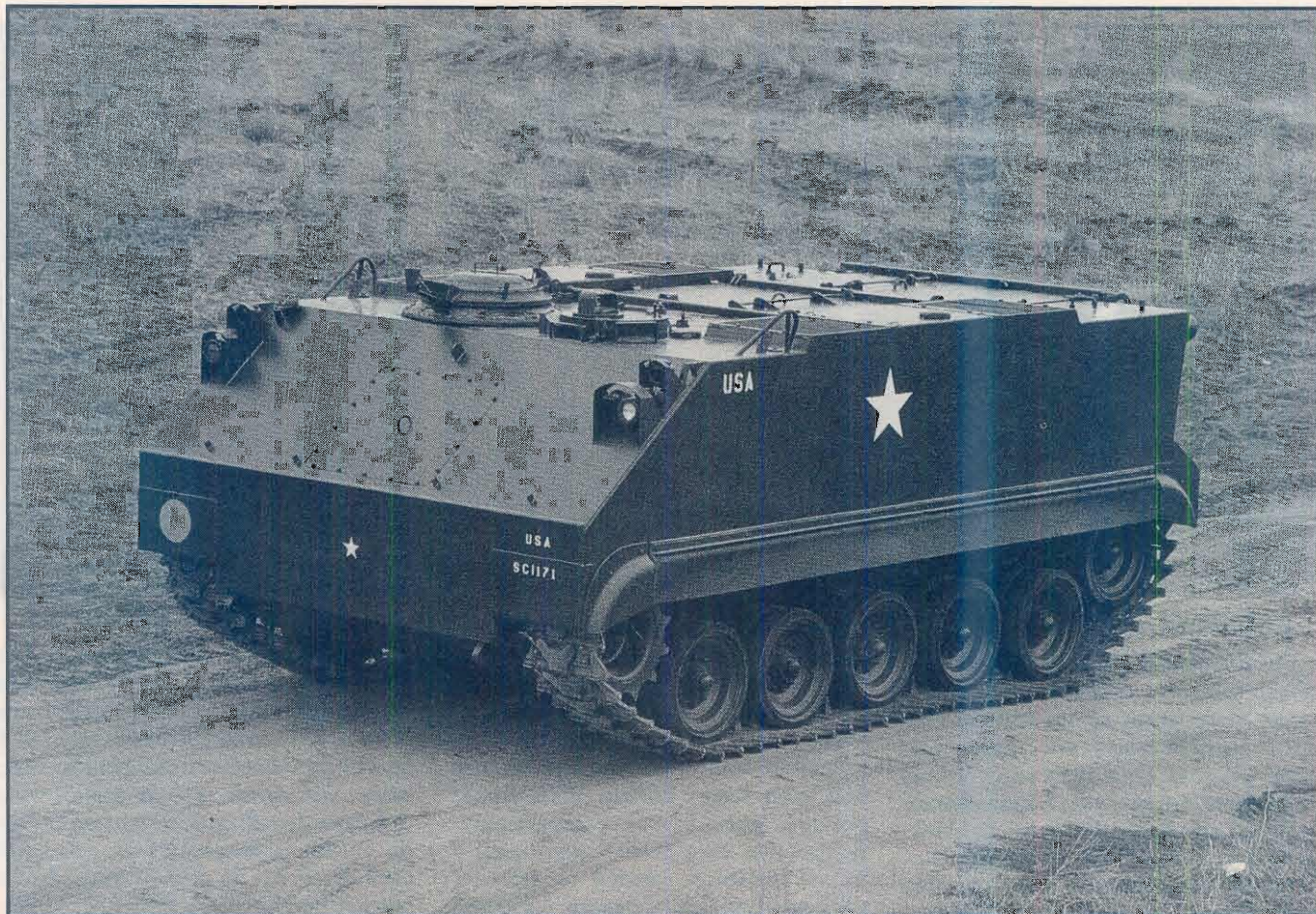
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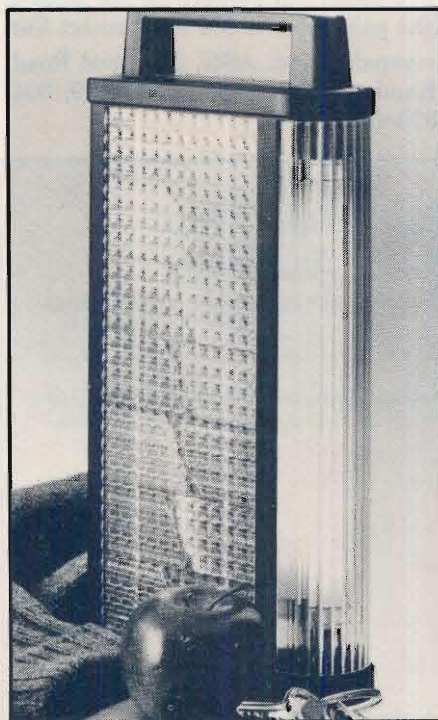


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A new hand-held lantern that converts sunlight to electricity for safe, dependable lighting in any location has been introduced by Heliopower Inc. Designed to be used for camping, boating, walking, during emergencies, etc., the Solar Lantern provides up to five hours of continuous light in a 180-degree arc from a six-watt fluorescent bulb. It weighs 3.3 pounds and has a built-in handle making it easy to carry and store. Life expectancy with normal use is six to 10 years. Suggested retail price is \$129.95. Available in selected stores nationwide. For more information contact Heliopower Inc., Dept. ASG, One Centennial Plaza 3F, Piscataway, NJ 08854.





Sidekick Assault Rifle Case

The Sidekick Assault Rifle Case was designed as a complete carry system for assault rifles, spare magazines and accessories. Made of tough Zepel-coated 1000 denier black Cordura nylon, thick foam padding and 500 denier Cordura nylon lining, the case is weather resistant and protects rifles from dirt and scratches. All stress points are double stitched with nylon thread. Features five flapped magazine pouches with Velcro closures, full length YKK self-healing nylon coil zipper allowing case to be opened flat and used as a shoot-

ing pad, protective inner flap to keep gun's weight off the zipper. Can be carried either by wraparound nylon web carry handles or removable 1½-inch wide adjustable nylon web shoulder strap. Suggested retail is \$59.95 at gun

stores, sporting goods and law enforcement retailers. For a 40-page color catalog of this and other firearms accessories, send \$1 to Michael of Oregon, Dept. ASG, P.O. Box 13010, Portland, OR 97213.



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The Mosquito, besides being the only self-cocking pistol crossbow on the market, features a powerful 45-lb. prod, safety catch and a low price. For more information, contact Saxon Arms, Inc., Dept. ASG, 615 Jasmine Ave. N., Suite J, Tarpon Springs, FL 34689; (813) 938-4332.



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(58 stars) and full computing and plotting functions, is coupled with a modern sextant, an artificial horizon (for practicing in your backyard) and an easy to understand, self-instructing workbook. The kit retails for \$125 and is available in marine equipment shops, computer stores and from specialty mail order companies. For more information and free catalog, write Davis Instruments, Dept. ASG, 3465 Diablo Avenue, Hayward, CA 94545; (415) 732-9229. ●

Barrenlands:

Arctic Survival

The Eskimos survived through ingenuity. . .

By Eon Fraser

CANADA'S Eskimos are said to have an average IQ of 110, compared with a norm of 100, maybe because, over the centuries, only the smart survived.

Their testing ground was North America's desolate, rocky, icy Arctic desert, called the barrenlands, where perpetual winds and winter temperatures of minus 50 to 65 degrees F. mean a windchill factor of 160 below zero. Summer is treeless, shelterless and miserable, plagued with hordes of mosquitos and black flies. The Eskimo's idea of hell.

There, at Chesterfield Inlet, 1,500 miles north of Winnipeg, Manitoba, I worked in a remote radio/weather station on the northwest coast of Hudson's Bay. As any atlas will show, it is beyond the tree-line where wood is scarce and precious. So the Eskimos had learned to subsist mainly on animals and their by-products using their hides, sinews, and bones to make clothes, implements and weapons. Even in the 1950s and early 1960s the only steel they used was for the women's knives or Oolos, sewing needles, and the men's snowknives. Unlike harpoons, rifles work only as long as you have ammunition, and fur trade stores are 300 miles apart.

The Eskimos survived through ingenuity, self efficiency and the interdependence of husband and wife. He hunted for meat and skins and made his own implements; the woman sewed the skins into clothes, boots and mitts so the man could hunt.

During my two-year term at the Arctic radio station, I learned a few survival techniques that anyone can apply in the winter season.

You learn that the real necessities for survival are shelter, weapons for hunting, food, and fire in that order. Shelter while hunting was still the ubiquitous build it, use it, and leave



The author's first igloo. Snow blocks are built in a spiral with a key block to hold everything in place. Snow banking helps keeps cold out. Eskimo snow shovel in front of igloo is made of salvaged wood.

it, overnight igloo, built of snow blocks in less than half an hour. When settling in an area for a week or so, a larger multi-room igloo would be built that would take two families an hour or so to complete.

Normally an igloo can not be heated above 29 degrees F. without it starting to melt,, ice over inside, and lose its insulative powers. A large igloo was sometimes insulated when it was to be used for a few weeks, and when caribou skins were plentiful. To do this, hides were pinned, hair outward, to the inside of the igloo, using thongs pushed out through the snowblock wall, and toggles used as fasteners.

Fire was not necessary for cooking. Uisquemow is the Indian word for raw meat eaters, and the Eskimos relish

meat and fish "raw" (in winter it's mostly quick frozen) and so get the vitamins. The Franklin expedition perished in part because they *wouldn't* eat raw meat! But a tiny fire will dry skin clothes, and make an igloo warm enough to be able to take off one layer of clothing.

When you are many miles from the fur trade post with no matches or lighter it's back to the primitive combination of friction and tinder. They used the age-old and simple method: a small bow with a loose thong for a string, and three small pieces of wood — a pencil-sized fire stick, a holder to apply downward pressure to the fire stick without burning your hand and a base piece with a little hollow into which a tiny amount of tinder (usually

bone-dry sphagnum moss) was placed to start the flame. You wrap the bow string two or three times around the fire stick, saw it back and forth, turning the fire stick rapidly to generate the heat to ignite the moss.

The tiny bits of smoldering moss were then transferred to the edge of the half-moon shaped seal oil lamp or kudlik that served to heat the igloo, and nursed into flame. Carefully tended, and kept tiny so as not to smoke up the igloo, the flames could dry skin clothes on a rack, and even (it takes a long time) cook an Oyok (stew). An Eskimo woman had to be a skillful flame tender as well as a good seamstress.

Dangerous Sun — To hunt in the Arctic's bright sun and pure reflective snows of early spring you must avoid snow blindness. Without sunglasses, you can soon go snowblind. It is painful, disabling and, in these regions where polar bears abound, deadly.

My first seal hunting trip taught me a valuable lesson. I went with a group of coastal Eskimos out on the Hudson Bay ice. My "guide," Nouvuk, an Eskimo who did odd jobs at the radio station, was very angry when he found I had forgotten my sunglasses. He stopped the dog team, set the sled on its side as a shelter from the wind, lit a candle and, with the flame, sooted the metal end of his harpoon shaft. He then took the soot and rubbed it round my eyes. Since I have deep-set eyes this got me through the day with lots of squinting. I never made the same mistake again.

The Eskimos made their own "sunglasses" from wood or bone. But in an emergency even a piece of thin card such as a cigarette pack will do. Open it up. With a knife make two eye slits. Pierce holes and use a string or thong

to keep them in place.

Warm emergency foot wear or "socks" can be made from rabbit skins or duck skins by pulling the skin off as whole as possible. If you need it right away, just turn it fur (or feather) side in and wear it as a slipper or a legging. If you have time, scrape the skin, and pack it with dried grass or other material to stretch and dry it. The Eskimos used eider duck skins, complete with down and feathers, as liners for sealskin boots. Simple emergency mitts can also be made by this method.

A real treasure for Eskimo hunters was a small 30-power telescope. Small, light, and easy to carry, it is worth its weight in full stomachs! Great for spotting polar bears, or seals sunning on the sea ice. Because there was no cover, once you spotted a seal you needed a way to sneak up on it. One way was to lie on your stomach on a tiny sled and imitate a seal. Keeping arms along your side, pushing with your toes to move forward gradually, and raising your head and trunk (like a seal) from time to time. Some Eskimos even imitate seals' barks as part of the deception.

An easier way was to make a moveable blind of a piece of bleached-white hide, or canvas, stretched over two crossed wands. A small hole was made in the center to see through and shoot through. The blind was held in front of the crouching hunter as he edged close enough to make a killing shot. A wounded seal would escape down the hole in the ice and be lost, a no-no in survival terms.

When no rifle was available, a harpoon, time and ingenuity on the sea ice could still bring food. First a sled dog (huskies) would sniff out the seal's breathing hole hidden beneath the thin crust of snow. The Eskimo would then use a slender rod to confirm that the



The author in his caribou skin outfit on the barrenlands.

hole was there, gently scrape a small hollow over the tiny hole left by the rod and put a piece of eiderdown on the hole.

He would then settle into a half-standing crouch position, elbows braced on knees, harpoon at the ready, and be totally silent and motionless. A seal can stay under water for 20 or 30 minutes at a time, and may have more than one breathing hole in the ice. So patience and total concentration is a necessity. As the seal rises in the hole, the air is pushed up, the feather lifts, and DOWN slashes the Eskimo's harpoon. Then he enlarges the hole enough to pull the seal out onto the ice using the sealskin line that served as the harpoon "rope." The dogs help pull up the big ones.

Eskimos use sealskin, to make waterproof boots and summer pants, or cut it into long thin strips for dog harness, and harpoon lines. They also weave it into dog whips, and use it for lashing cross pieces to sled runners.

Long wooden sleds or komatiks are the Eskimos' main winter mode of transportation. Caught without wood,



Getting the komatik ready to go seal hunting. Landscape is typically desolate.

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Arctic Survival



The radio station at Chesterfield Inlet, Northwest Territories, showing snow banking, right, and supplementary porch of ice blocks to help keep out the frigid -50 degrees F. cold.

they have made a sled from fish. The 6- to 8-pound Ikalloo (Arctic Char), hard frozen, were laid head to tail, and wrapped in wet skins or canvas which froze into a runner shape bent slightly upwards at the front. The sled's cross bars were made the same way and tied into place with sealskin lines. The running surface was made by digging up earth, heating it into mud with some snow water, and then molding it onto the runners.

The frozen, smoothed mud in turn was then coated with layer after layer of ice, by melting snow, taking mouthfuls of water from the melt-pot, spraying it onto a polarbearskin mit, and rubbing it onto the runner. The advantage of this sled was that if you ran out of food you could eat it. To keep the dogs from eating it overnight it was stored on top of the igloo.

Living Off Land, Sea — Two different types of Eskimos lived in that area, the seelamut (sea people) and the noonamut or land people. The seelamuts used single-man kayaks, or family qomiaks. These had wood or

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whalebone frames covered with seal-skins sewn together. In summer this was the preferred method of travel — no mosquitos! For food they harpooned seals or walrus.

Their hunting harpoons had a float-free shaft. An inflated sealskin float attached to the line to tire the animals which were finished off with a short killing harpoon. Even when ammunition was plentiful, the animals were harpooned first so that, when they were shot, they would not sink and be lost. The thick layers of fat or blubber of the walrus and seals were rendered down in sealskin bags to make cooking oil. The seal livers, a delicacy, are rich in vitamin A.

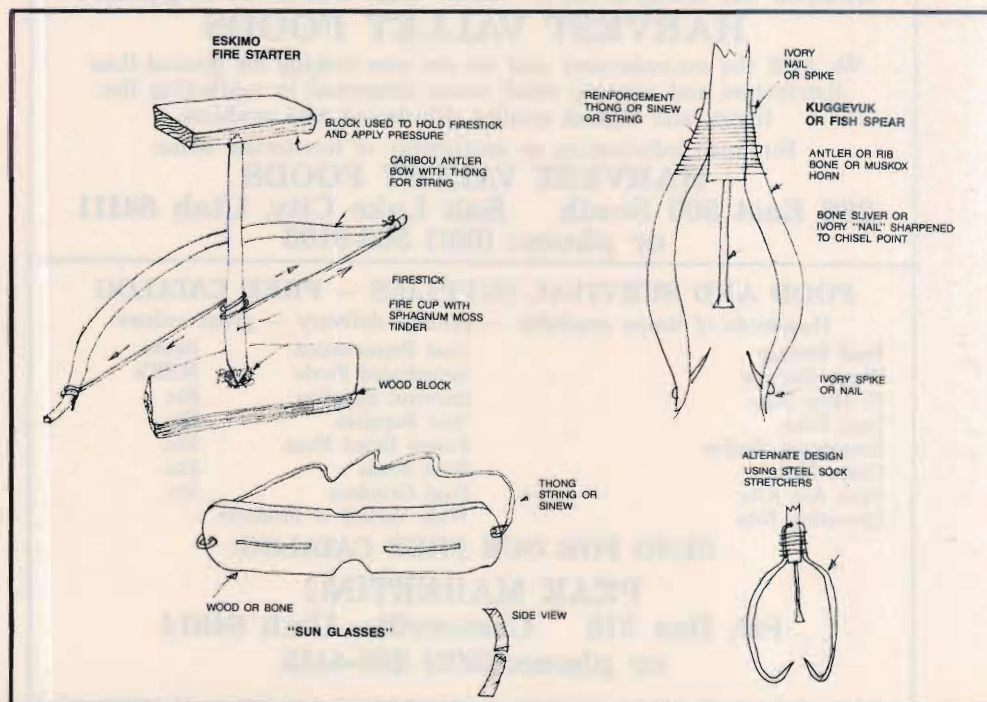
The noonamut hunted caribou, on land in winter, and often by kayak in the lakes in summer catching the migrating caribou (tuktu) when they were swimming across. The caribou are strong swimmers but cannot outpace an Eskimo in a kayak. The lesson here is that you can kill even a moose with a hunting knife — if he's swimming!

The noonamut also fished through the lake ice in early winter, but got most of their summer fish for drying by spearing them in stone-built fish-weir traps during the spawning run in summer. Though the Eskimos gorged

themselves at the time, many fish were cleaned and laid out on the rocks in the sun of the long Arctic days to dry for later consumption.

The fish spear or kuggevuk, used for ice fishing in early winter before the ice becomes too thick, was pure Eskimo ingenuity. The kuggevuk has two

springy bone sides, each of which ended in a backward-inward facing tooth. In the middle, protruding from the forward end of the shaft, was a bone or ivory spike about 2 to 3 inches long. The fish were attracted to the hole in the ice by a little hookless bone or ivory jigger. When the kuggevuk hit, the



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Arctic Survival

tines slipped around the fish and hooked in; the central spike penetrated or severed the spinal cord. If you hit the fish, it is yours!

The Eskimo was able to live in relative comfort in sub zero temperatures because of the design of their lightweight, highly insulative clothing.

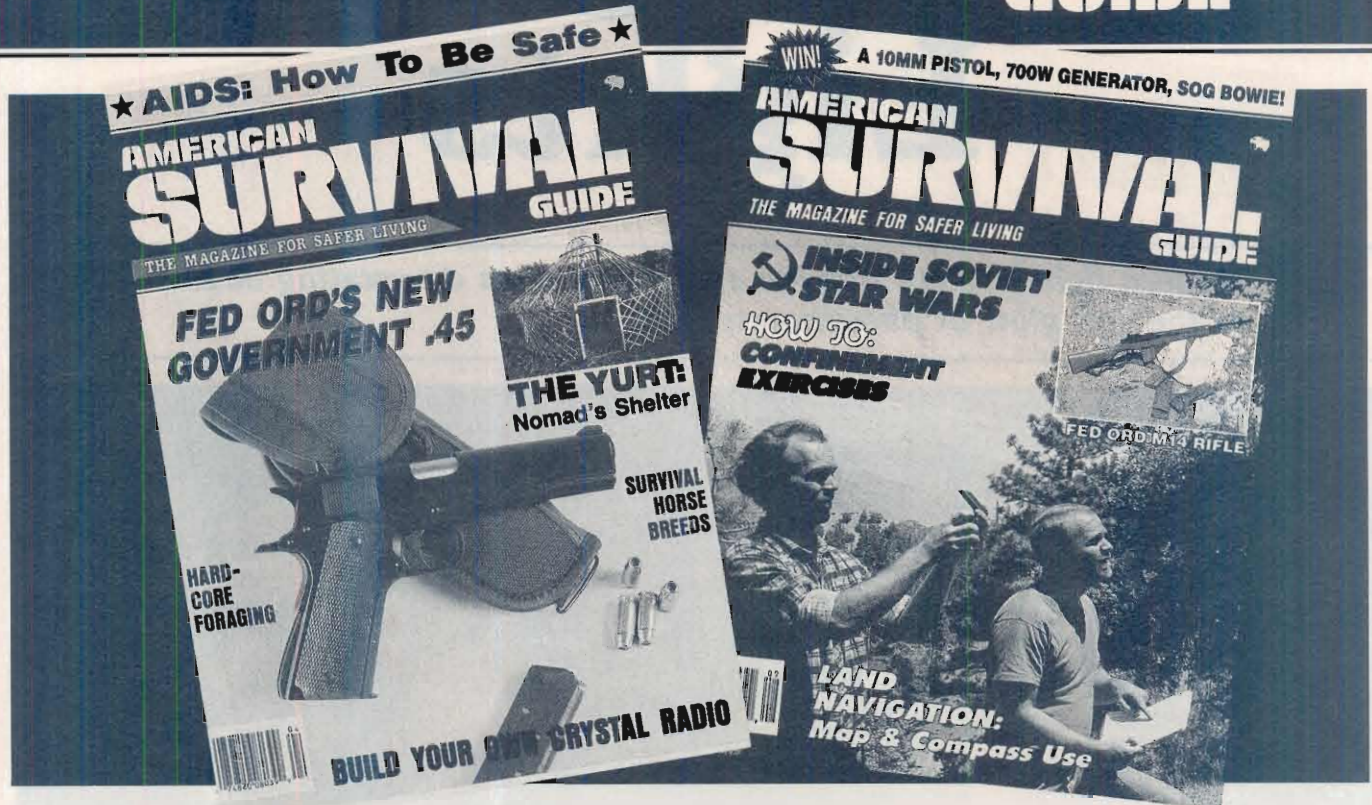
The winter parkas and knee pants were made of scraped but uncured caribou skins. Two complete suits were worn. One next to the body, hair in; the other on top, hair out. Perspiration was controlled by permitting a flow-through of air from below, exiting at the face. This was done by tightening or loosening the drawstring around the koolitak (parka) hood's face opening. Sweating is dangerous because the clothing becomes wet, loses its protective insulating powers, then freezes. If it freezes, you die.

Caribou skin boots had extra soles sewn on, skin-side out and made knee high to meet the overlapping below-the-knee length caribou pants. Boot-soles wore out quickly and needed frequent replacement. The pants, with no fly, were held up with a drawstring and toggle.

The caribou skin sleeping bags were also double: the inside one with hair facing inward; the outside one, hair out. To keep the bags dry, frost that formed on the hair from your breath overnight was beaten off in the morning with a short stick. The "groundsheet" was a polar bear skin laid (waterproof) hair side down on the igloo's snow sleeping bench to protect the untanned caribou skins from any snow melt.

From these experiences I learned a new respect for cold weather. Now my car trunk carries a winter survival kit. For shelter, a sleeping bag and groundsheet; for food, three beef jerky, three chocolate coated granola bars (you can drink snow); for fire, waterproof matches, butane lighter, candles, hiker's mini-stove, thermo solid fuel; for light a small hurricane lantern, pint of fuel. For the car: 1-gal. gas; 1-gal. methyl alcohol (gasoline antifreeze or emergency "gasoline" — your engine can burn it if you keep the choke $\frac{3}{4}$ out); first aid kit; 3 road flares; 6 marine flares with gun; milk carton of sand; folding shovel; 50-foot nylon rope. It all fits into a box 14 x 18 x 12 inches deep. Unlike car insurance, it'll ensure survival. ●

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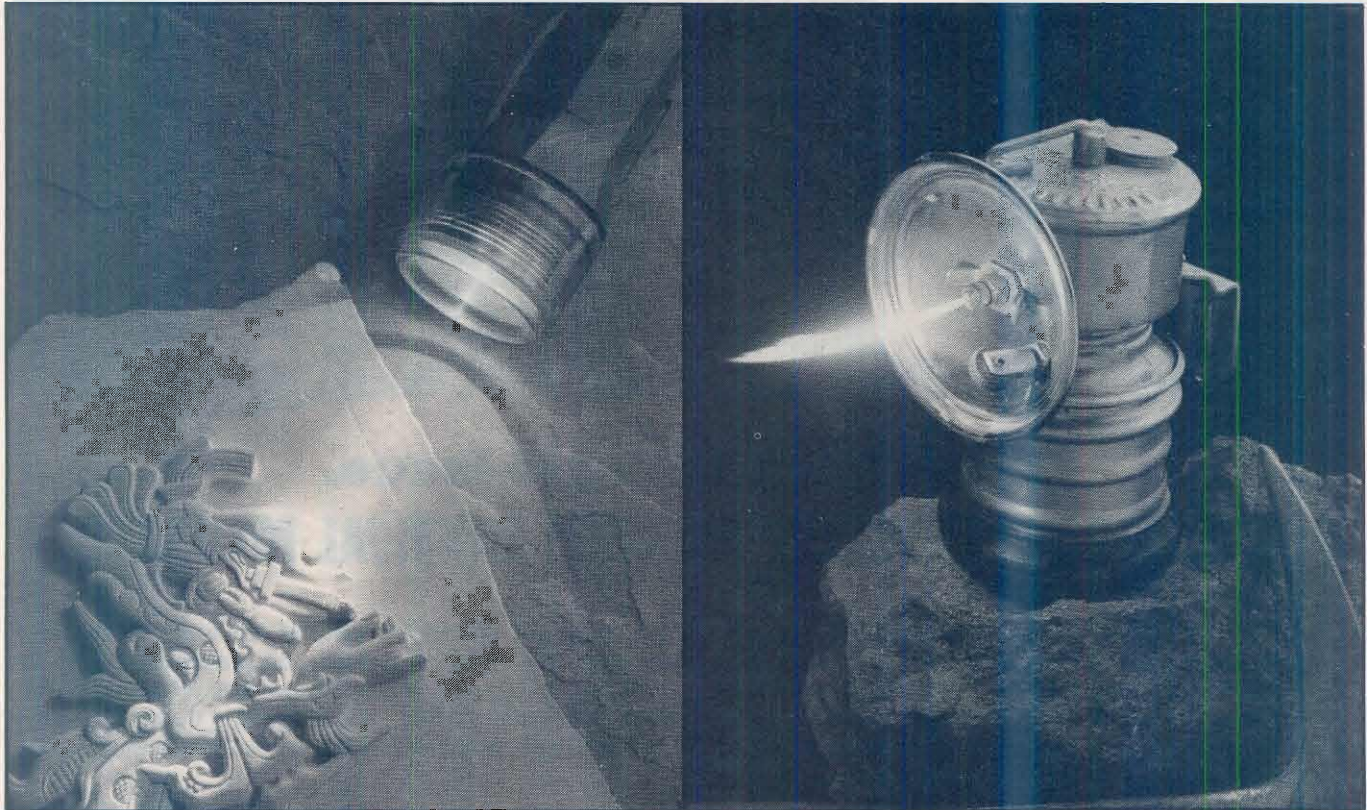
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Staff Evaluation

Research today in modern lighting technology is providing us with some unique advances and alternatives to the common light bulb. Survivalists are finding a wider and wider assortment of devices that can be used in emergency and tactical situations. Many of these lighting devices can be stored for long periods of time and

take up little space.

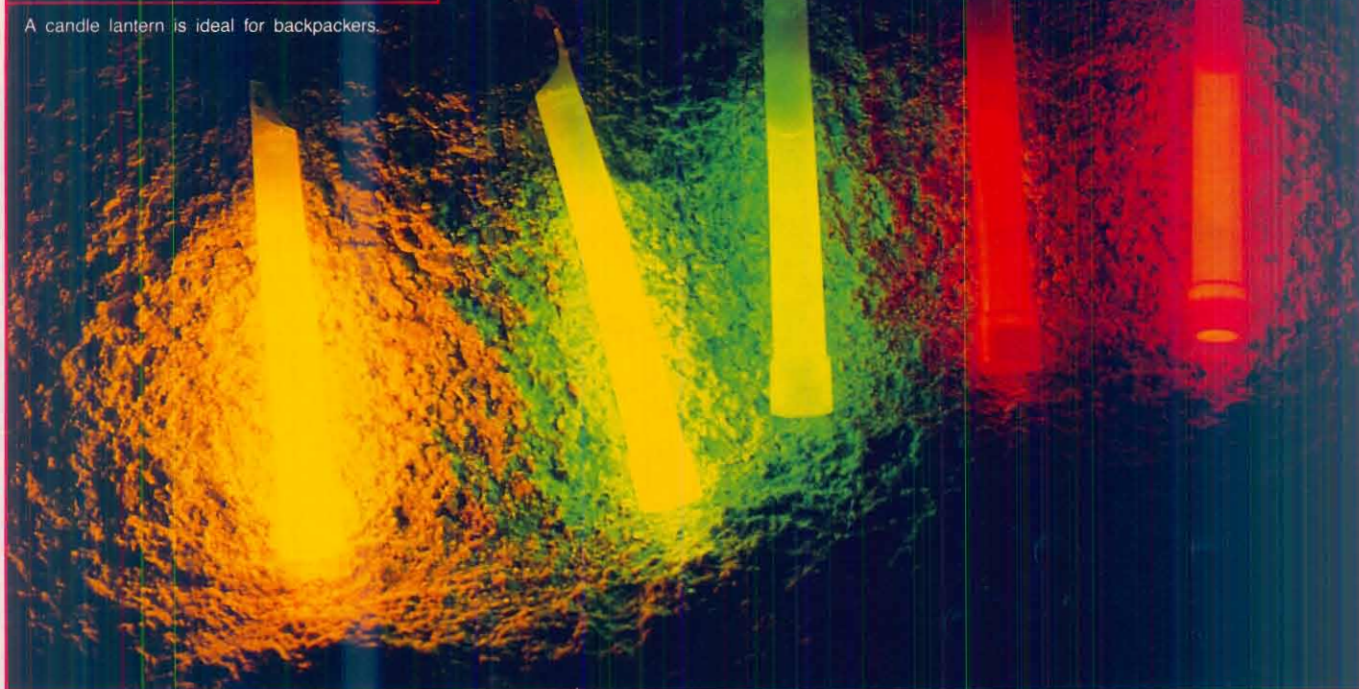
Cyalume lightsticks have found a variety of uses in military, police and firefighting applications. Lightsticks, when sealed in their airtight foil wrapper, can be stored for over four years. The plastic tube contains two chemicals that when mixed give off a bright glow. As a person bends the lightstick a

glass ampule breaks inside containing a chemical activator (peroxide). This mixes with a chemical that contains a fluorescent compound which determines the color of the lightstick. Ultra high-intensity lightsticks contain a catalyst that promotes a faster reaction and a brighter light.

Lightsticks are waterproof, buoyant,



A candle lantern is ideal for backpackers.



Cyalume Lightsticks. Left to right: ultra high-intensity, high-intensity yellow, regular green, regular red and high-intensity red.



lightweight, non-toxic and provide a durable source of cool fluorescent lighting. With no bulbs, batteries, sparks or flame, they are useful around hazardous materials and flammable chemicals. Scuba divers use them for underwater marking. Sea kayakers and backpackers put them on their helmets or hats for night identification.

We found the ultra-high intensity lightsticks to be a very bright orange, sufficient for map reading and night signaling. Anti-terrorist units in Israel have invented a device called the *Light Grenade* that uses five ultra high-intensity or infra-red Cyalume lightsticks for storming rooms held by terrorists. Shomer-Tec has these devices available along with an assortment of lightsticks. Infrared lightsticks can be sold to police or military personnel only.

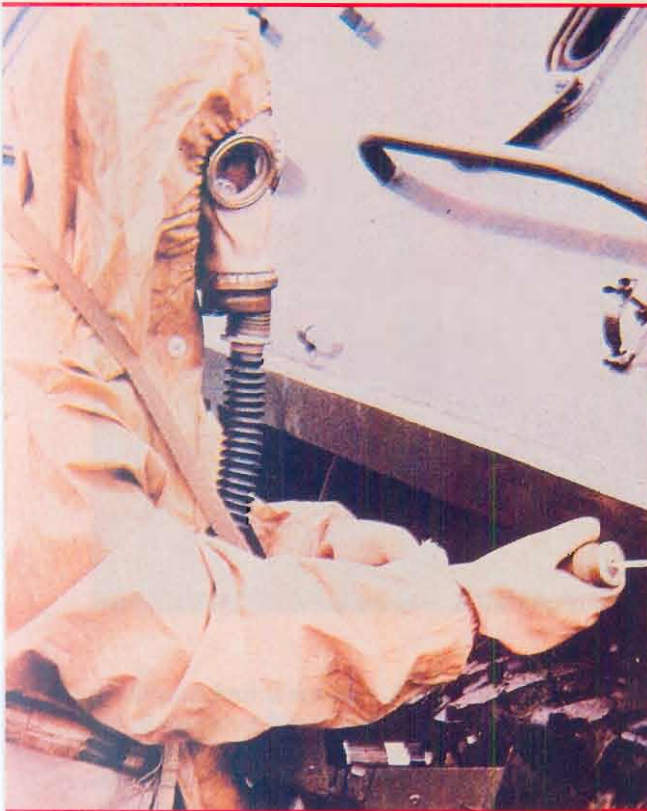
Another self-contained light system

(Continued on page 60)

The ultra high-intensity lightstick is bright enough for comfortable reading.

Gas, Germs and Terrorists II

*Reducing our
vulnerability to
C/B attacks. . .*



This is the second of two articles on the possibility of terrorist use of chemical and biological weapons and what can be done about it — The editors.

By Michael Pietrantonio

"THERE are means that win the easiest victory over reason — terror and force." — Adolf Hitler, *Mein Kampf*

As we move into the 1990s, the words of Adolf Hitler may yet again prove prophetic.

Just as Hitler used terror in the 1930s to achieve his evil ends, modern terrorists are poised to begin a new wave of terror using weapons the likes

The Soviets have an extensive chemical/biological warfare capability. Their chemical decontamination corps alone numbers over 100,000 men. Soviet troops are trained to operate in C/B contaminated environments. Here Soviet soldiers are shown decontaminating and conducting routine maintenance on vehicles (Department of Defense).

Most terrorist attacks have been conducted with high explosives, such as this car bomb attack on the U.S. Embassy in Beirut. Should terrorists resort to chemical/biological weapons in the future, death tolls could number in the thousands for a single incident (U.S. Army).



of which Hitler could only have imagined. No longer are weapons of mass destruction confined only to the arsenals of the industrialized nations.

While nuclear weapons may soon be within the grasp of terrorist groups, chemical and biological weapons are available to these groups today. Experts on international terrorism agree that the question is no longer one of if these groups will resort to these weapons, but rather one of when they will do so.

In the first part of this article we examined how a terrorist group might obtain chemical or biological (C/B) weapons and the suitability of these weapons to terrorist actions. Now let us look at the type of terrorist likely to consider using C/B weapons, his possible targets and goals, and what can be done to reduce our vulnerability to this new threat.

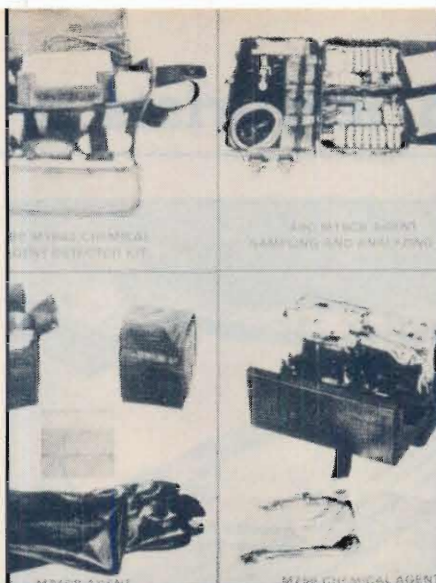
Consider the following four incidents.

In 1984 a still classified incident took place in Israel. The security at an Israeli military installation was breached by terrorists who contaminated a mess hall coffee urn with carbamate — a chemical nerve agent. No information has been publicly released concerning either casualties or suspects, but it is assumed by the intelligence community that the PLO or a splinter group was responsible.

There is an island off the coast of Scotland called Grunard. During the Second World War Grunard was used by the Allies to test anthrax bombs. Since anthrax bacterium form spores which can remain deadly for decades, Grunard island is today, and will remain for the next 50 to 100 years, completely uninhabitable. Placed around the island at 400-meter intervals are government signs warning that the entire island is contaminated, and that landing is prohibited.

In 1981 British anti-war protesters claimed that they had landed on Grunard and removed quantities of anthrax-contaminated soil. They further claimed, as a means of protesting British C/B warfare research, to have scattered the contaminated soil on the grounds of Porton Down, the center for British C/B warfare activities. No cases of anthrax have been reported, and the probability is that the protesters never really went to Grunard — but they (or anyone else) could have.

In 1976 2.2 pounds of a substance very similar to the nerve agent Sarin, known as GB by the military, was privately produced by a chemist in Austria. It was eventually offered for sale



The military has various chemical warfare detection and decontamination kits for use on the battlefield. There are currently no such kits available to civilians (U.S. Army).

by the chemist, in the criminal undergrounds of Austria and Germany. Asking price: less than \$10,000.

Finally, in 1984, several people in the U.S. died as a result of taking poisoned Tylenol capsules. To date, no arrests have been made, and the motivation of the person responsible has never been ascertained.

What these incidents share in common is the use or threatened use of chemical or biological agents by terrorists. What separates them from each other is the motivation of the individual or group responsible for the incident. Knowing what motivates a terrorist is important because such knowledge will aid in understanding both the long-term goals of the terrorist and the tactics he chooses to use.

The first incident illustrates the actions of the "nationalistic" terrorist.



Sensors have been developed to provide troops in the field with warning of a chemical attack. These devices could be adapted for use by civilians, police and civil defense personnel (U.S. Army).

This type of terrorist often sees himself as a "patriot," struggling to free his people from oppression. Usually his goal is something concrete such as the creation of a nation-state for his people. The IRA, PLO, and Basque separatists illustrate this category of terrorist.

Terrorists of this type are somewhat limited in their actions because the people they supposedly fight for form an identifiable group, a group against which retaliation can be taken should the terrorist go too far in his actions. For example, it is quite easy to conceive of the PLO using chemical weapons to kill all the occupants of an office building in New York or London. It is far less credible that the PLO would launch a chemical or biological attack designed to wipe out the cities of New York or London. In such a case the retaliation would in all probability be on such a scale as to outweigh any conceivable benefits from that type of an attack. The nationalistic terrorist seeks concrete, real gains, which he and his people cannot enjoy if killed in reprisals.

The second incident illustrates a completely different, and perhaps the most dangerous, type of terrorist. Here we see a fanatic who is motivated by idealism, religious fanaticism, or some other all-consuming passion. In the name of stopping chemical and biological arms research, the group in the second incident was more than willing to risk unleashing an epidemic on their own countrymen. Like the Islamic Jihad fanatic who willingly blows himself up in a car bomb attack, this type of terrorist, should he obtain chemical or biological weapons, would be most likely to use them against an entire city. As illustrated by the second incident, he would be willing to use such weapons even



Gas, Germs and Terrorists II

against his own people.

The difference between the first two types of terrorists is perhaps best illustrated by the fact that the IRA or PLO terrorist almost always plans his attacks in such a way that he will be able to escape. On the other hand, the fanatic, like the Japanese Kamikaze pilots during World War II, plans and intends to die in carrying out his mission. For this reason he is much more dangerous than the nationalistic terrorist.

The other categories of terrorists who might resort to the use of chemical or biological weapons are the common criminal, and the crazy, illustrated by the last two incidents above.

Fortunately neither the crazy nor the criminal is likely to have the ability to obtain the quantities of chemical or biological agents which could be threatening to the nation as a whole.

The use of such substances by the criminal is most likely to come in the form of extortion aimed at a corporation or municipal entity such as a town or city. Threats to contaminate a vital manufacturing plant or a city water supply are two of the more obvious possibilities for the criminally motivated terrorist. For this terrorist, though, unlike the political terrorist, the threat, not the actual use of a chemical or biological agent is his greatest weapon. If he actually resorts to the use of such weapons he will have failed in his main objective — extortion. Further, and more importantly, it is likely that once such an attack occurred no effort would be spared in finding and prosecuting those responsible. Thus, while the threat posed by the criminal use of chemical or biological agents is real, it is less a national security matter than a law enforcement matter.

The "crazy" represents a somewhat larger threat than the criminal because he is apt to strike randomly. As in the Tylenol case there are likely to be no demands made, no claims of responsibility, and no discernible pattern to the attacks. This type of terrorist in all probability will work alone, and that will limit to a large degree the extent and effectiveness of his actions. Even so, one lone demented individual does have the capacity, using chemical or biological agents, to kill or injure many, many people, and to disrupt on a wide scale the day-to-day operations of a modern society. This type of ter-



An artist's rendering of a satellite photo showing one of dozens of Soviet chemical weapons storage depots. The Soviets have transferred chemical weapons to many of their Third World allies and some terrorist groups may also have them (Department of Defense).

rorist, and the threat he represents cannot be lightly dismissed.

Countering The Threat — As we have seen, the possibility of C/B terrorism is real and continues to grow. There are signs that those responsible for government emergency planning are beginning to recognize just how vulnerable we are to this threat. However, merely recognizing that a threat exists does nothing to stop an incident from happening, or to cope with the effects once it does.

The problems associated with defending against a terrorist attack are enormous. Even the White House, Pentagon, and other sensitive government facilities could be successfully targeted by terrorists. In fact, a former Secret Service agent has acknowledged that the White House is vulnerable to this type of an attack. In their excellent book, *America the Vulnerable*, authors Douglass and Livingstone quote the former agent as saying, "There is no question, but that you could introduce something of a toxic nature into the White House water. While the water is monitored and watched for content, the technique is not foolproof."

Special "black-hat" military operatives have conducted simulated C/B attacks against targets such as command and control centers, the Pentagon itself, etc. Even these specially protected targets (guards, sensors, air and water filtration systems, etc.) were found to be vulnerable to covert C/B

attack. If even the most important national security installations are not safe from such an attack, how much more vulnerable is the city, individual office building, reservoir, sports arena, etc.?

A two-pronged effort is needed to begin to bring the growing C/B terrorist threat under control. Programs aimed at preventing such an incident must be undertaken. On the other hand, if such preventive efforts fail we must be prepared to deal effectively with the results of this type of attack.

The key to preventing a terrorist C/B attack is an effective intelligence gathering system. In the mid-1970s the U.S. Congress, led by the late Senator Frank Church, virtually dismantled both the domestic and foreign intelligence gathering capability of the U.S. In a cut-off-your-nose-to-spite-your-face frenzy, Congress, followed later by President Carter, slashed budgets and personnel from the FBI, CIA, and other U.S. intelligence agencies. Worse, such severe restrictions were applied to U.S. intelligence gathering activities, particularly domestic activities, that they virtually ceased.

The past decade has seen much progress in reducing the damage done to the intelligence community. However many of the legal restrictions on intelligence activities remain in effect. Since a C/B terrorist would likely produce his weapons within the U.S., and might very well be a U.S. citizen, the agencies charged with preventing a terrorist incident must be given the legal means to do their job.

Other steps of a preventive nature can also be taken. They include better regulation of the mail-order sale of lethal chemical or biological agents. The licensing of researchers and institutions which use such materials would not hinder legitimate research, but might catch the terrorist who attempts to obtain these materials fraudulently. Better security at institutions using such materials would also decrease the chance of their theft.

One of the most important steps that can be taken would be the creation of a specialized unit, similar in concept to the Nuclear Emergency Search Team, NEST, (see ASG Nov. 1985 for more info on NEST) to deal with a terrorist C/B incident. Such a unit may already be in its initial stages under the auspices of President Reagan's

Chemical Warfare Review Commission.

Such a unit would be tasked with locating and deactivating a C/B device before it was used, or failing that, isolating and identifying the specific biological or chemical agents used in the attack. The decontamination of the affected area might also be part of the unit's mission.

What if prevention fails? What steps can we take now to be better able to cope with an actual terrorist C/B attack?

One of the first steps might well be the production and stockpiling of sufficiently large stores of serums and vaccines to inoculate those exposed to a bacteriological attack. While there are technically a large number of diseases which could be used in such an attack, practically speaking a terrorist group would probably be limited, because of manufacturing, storage, and dispersal difficulties, to a relatively few diseases from which to choose.

Anthrax, for example, is thought by the International Association of Chiefs of Police, IACP, to be a likely choice for use by a terrorist group. It is according to the IACP, "perhaps the most toxic substance within the capabilities of a malefactor to employ." Yet, throughout the entire U.S. there is not even sufficient serum to provide 500 doses of this vital, life-saving substance.

Attention might also be paid to the idea of mass immunization. The Soviets, who have a long history in C/B warfare research, have plans to use aircraft for the dispersal of aerosol vaccines should a biological attack be launched against them. The idea has merit, and might even be more effective against a somewhat limited terrorist attack, than an all-out military attack.

Next, because of an increasing number of rail and road accidents involving hazardous materials, HAZMAT, in the U.S., both the Environmental Protection Administration and local municipalities have developed specialized HAZMAT response units. These already professional units should be given specific training in the handling of C/B agents. This training could be conducted at either of the two chemical decontamination training facilities run by the military. Plans should be made, so that in the event of a terrorist C/B attack, a national decontamination task force, drawn from local and federal HAZMAT teams and the military, could be activated and sent to the affected area.

Another positive step that could be

taken would be the renewal of the nation's civil defense program. In the context of coping with a terrorist C/B attack, the stockpiling of such items as gas masks and decontamination kits, along with the training of civil defense emergency teams for rescue and decontamination work, might help minimize the effects of such an attack.

Over the past 20 years the U.S. civil defense effort has had to fight the "doomie" myth that civil defense somehow increases the chance of war. By reviving civil defense efforts with a focus on defending against a terrorist C/B attack, the anti-civil defense lobby would be deprived of one of their main arguments. They could not reasonably assert that having the ability to cope with a terrorist C/B attack would somehow provoke a Kaddaffy or the PLO into undertaking such an action.

Lastly, U.S. research efforts in the field of chemical and biological warfare must continue. There is a growing movement in the U.S., led by the environmental lobby and disarmament activists, to halt U.S. research in these fields. They have already succeeded in preventing the Army from building a new laboratory in Utah designed to test defensive measures against biological attack. If these groups should succeed in their efforts, new advances in C/B warfare by our enemies may find us completely defenseless against either a military or terrorist C/B attack.

Upping The Ante — In 1972 the world awoke to the first truly international terrorist event, the Munich Olympic attack. Since then we have seen hundreds of terrorist attacks which have taken thousands of innocent lives.

Despite this record of atrocities and outrages there has been little if any worldwide outcry. Indeed, the few anti-terrorism successes achieved by a handful of governments have usually resulted in condemnation or indifference in the world community. The U.S. was, after all, roundly criticized even by its allies for a single attack against Libya.

Is it any wonder then that terrorists would be tempted to "up the ante" in future attacks. Threatening thousands or more in a single incident is the next logical step for international terrorism. Chemical and biological weapons give the terrorist the ability to take that step. Can there be any doubt that that step will indeed be taken?

We may choose to ignore the growing terrorist C/B threat, but it is doubtful that terrorists will ignore it. ●



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Four-Wheel Drive

The "most valuable weapon" of World War II has become today's family utility vehicle seeing duty at the ski resort, the beach, and the farm...

By Scott Stoddard

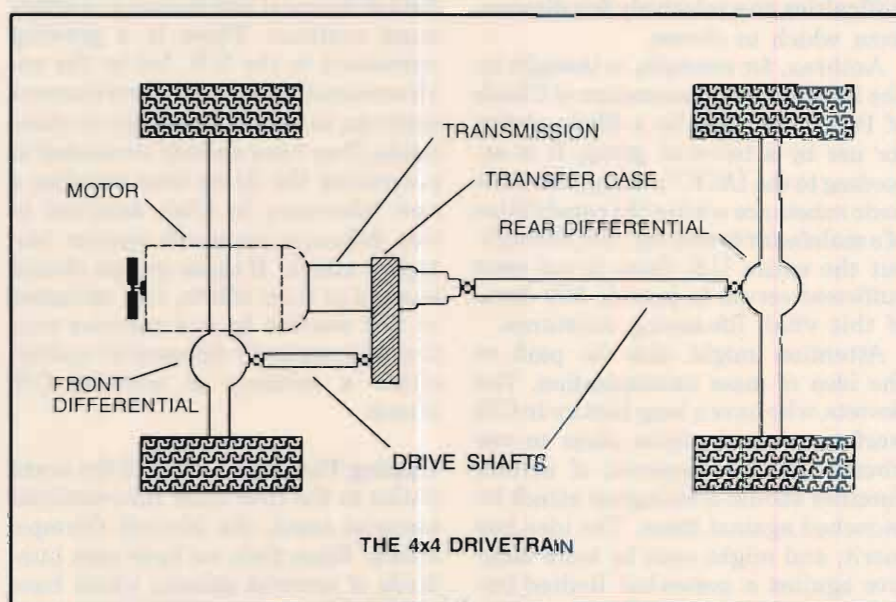
WE were headed back down the mountain after a crisp, clear day of skiing. The road from Alta ski resort back down to Salt Lake City gets to be steep in some places so we were careful to drive slowly on the snow packed road. At lower elevations the road appeared to dry out so we picked up a little speed. As we rounded a bend — surprise — more snow! My Toyota 2WD pick-up lost traction and spun out facing uphill with rear bumper hidden in the snow bank.

What's more embarrassing than getting stuck in the snow with California license plates? Getting pulled out by a guy with a big Ford 4x4 truck with Utah license plates.

For as long as I can remember, I have been in awe of big four-wheel drive trucks and jeeps. The powerful engines, the big tires and their ability to go anywhere in any weather condition really prompted my respect.

Two polls were taken in the early part of 1980, one in the United States and the other in Japan. When asked what was the "most popular" and the "most memorable" motor vehicle in the world, the results showed overwhelmingly that the lowly jeep was the winner in both categories.

Four-wheel drive was invented in the early 1800s. A land steam vehicle was made in 1824 by Timothy Burstall and James Hill in England. In fact, the vehicle was quite advanced for its day. The axles drove through free-wheeling clutches which could be locked for driving in reverse. In turn,



these free-wheeling clutches also compensated for the wheels running at different speeds during turning — the first limited slip.

During World War I the French Army sought to eliminate the horse from the job of transporting heavy artillery pieces on the battlefield. They needed something that could haul heavy artillery through difficult terrain. For this work it was impossible to consider the ordinary truck. Artillery rarely operated along main roads, and in most cases there were no roads at all. A tractor-like truck with four-wheel drive was introduced to the war and did the work faster than horses could.

Before World War II, the U.S. Army was looking for a small, general-purpose vehicle that could transport three people over a variety of terrain and

be able to carry 500 pounds of gear. Designers at Ford, Dodge, and the American Bantam Company came up with good prototypes in the early competitions, but it was the chief engineer at Willy's Overland Motors, Delmar Roos, that took the best design features from the early entries and combined them into one vehicle.

After more field testing and competition trials between the automakers, Willys won the contract award. The General Purpose vehicle (GP) became known as the jeep. Its low profile design featuring four-wheel drive, a powerful four-cylinder engine, drop frame for the chassis, and a tough front-end suspension system proved practical and reliable.

Sufficient numbers were produced so that by the time the U.S. entered

World War II the jeep was deployed everywhere and was used for reconnaissance, communications, and supported the infantrymen's advance with the forward displacement of automatic weapons, infantry mortars, antitank guns and ammunition. The jeep's use in the war was so profound that two presidents of the United States termed it the "most important contribution" and the "most valuable weapon" of World War II.

The Willys-Overland Corporation started producing civilian vehicles before the war officially ended. Servicemen from all branches of the military expressed a strong desire to have their own jeep when they came back home. By mid-1946 sales for the CJ model were booming. Willys set up

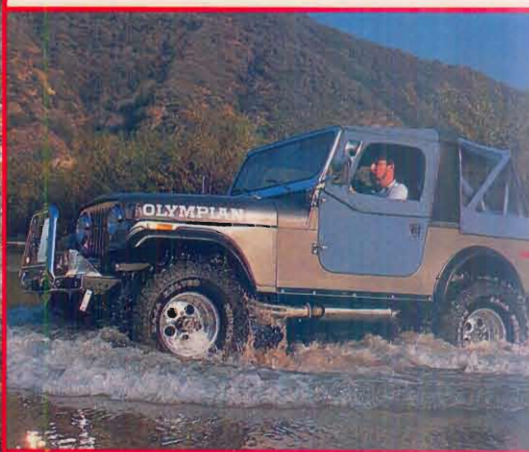
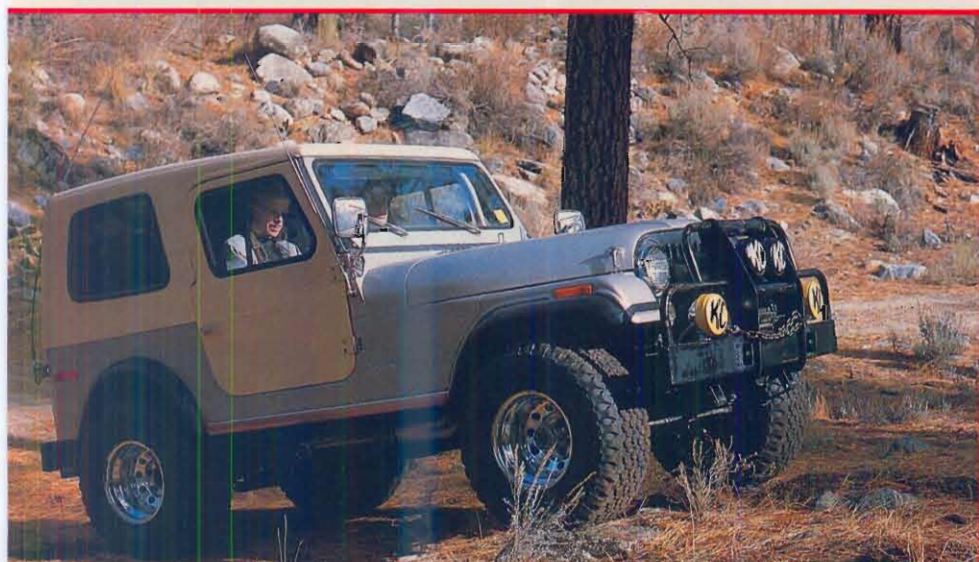
production lines for trucks and station wagons as well.

Today the four-wheel drive vehicle is as popular as ever. With new models and styles coming off the line every day, more and more of the benefits of four-wheel drive are being shared by the public. Besides the ability to climb hills, ford streams, traverse rocky trails and power through sand, four-wheel drive vehicles have endeared themselves to families for their additional safety on wet and snowy roads.

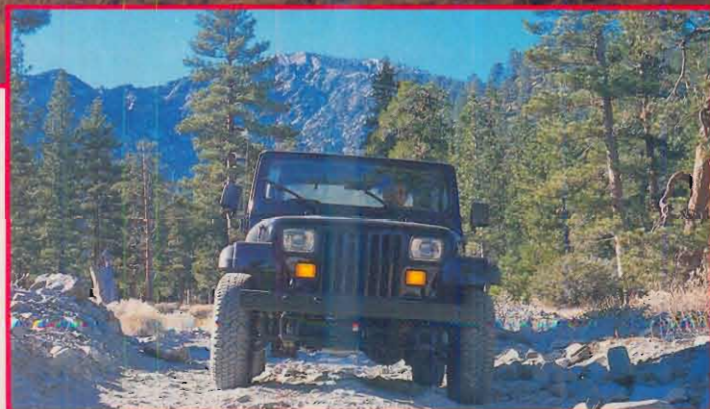
Because a survival retreat is most likely to be located off the beaten path, a four-wheel drive truck or jeep-like vehicle can make a good survival vehicle. I admit that a sturdy two-wheel drive truck can handle just about any terrain possible, but the

added traction of all-wheel drive can make getting unstuck an easier and faster operation.

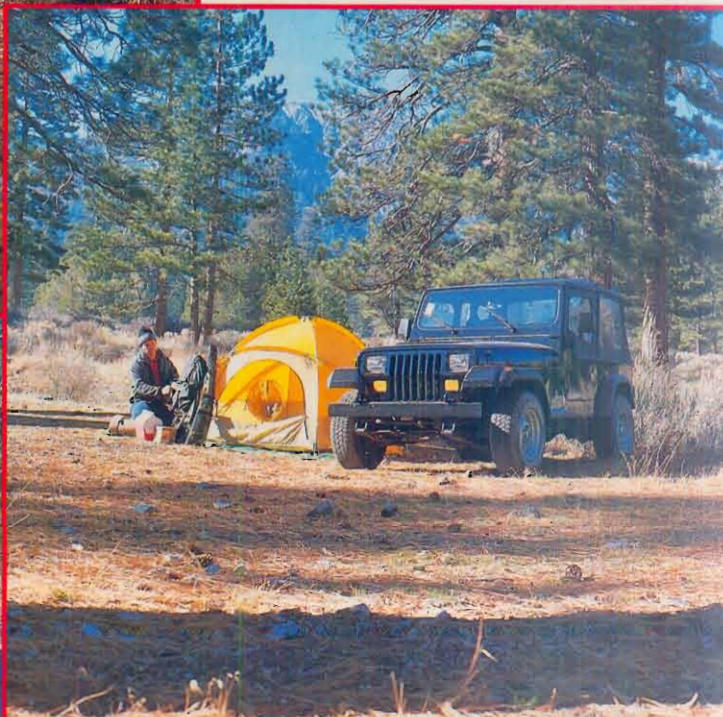
When I was 19 years old and living in Corpus Christi, Texas, Padre Island was a favorite area. Unlike the beaches on the West Coast, you can drive on the beach at Padre Island and so with a group of friends we began to try out some soft sand in a Volkswagen bug. After we lost momentum the tires dug in and we were stuck. After futile attempts to get free a guy came by in a jacked-up 4x4 and demanded 25 dollars to pull us out. I was mad. We didn't have 25 dollars and so after haggling with the guy we turned over all the cash we had on hand — a measly 10 dollars and 25 cents. He pulled us out all right, but he also



Take river crossings with care. Be sure of your exit.



Four-wheel drive can take you to remote places.

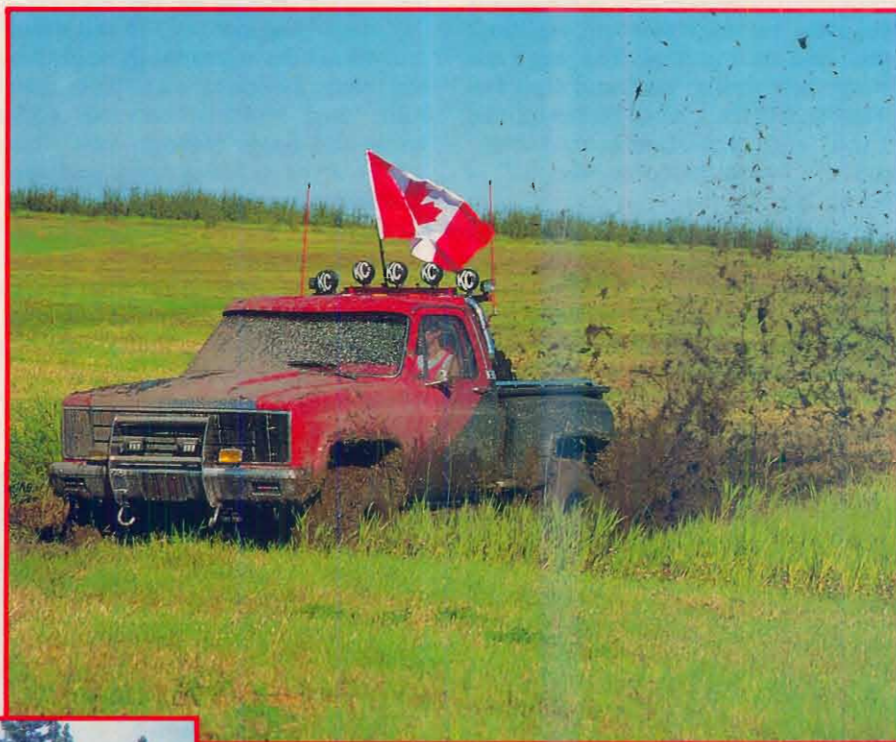


Be prepared with sufficient survival supplies when camping with your 4x4.

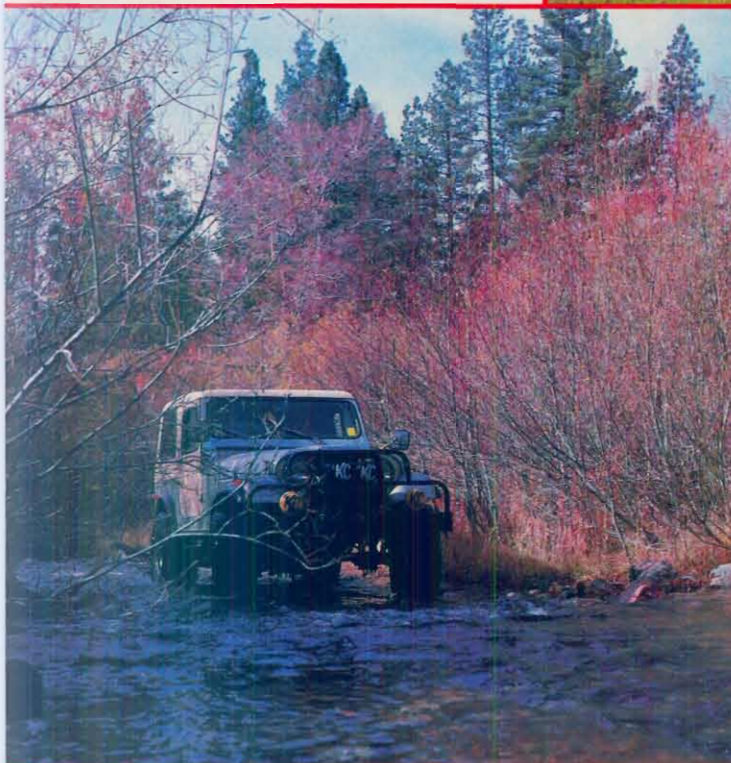
Four-wheel Drive

left a bad taste in my mouth for macho four-wheelers.

Getting Unstuck — Even with four-wheel drive it is possible to get high-centered in a ravine or trapped in some way where even “rocking” (backing up and going forwards) doesn’t work. A prepared off-roader will have brought the means to get himself out of trouble. Usually a jack and a few one foot squares of one inch thick plywood will do the job. Use a piece of plywood to create a better foundation for the jack and then carefully jack up the frame near the sunken tire. Then gather rocks to build up a small roadway under the tire. Lower the jack with the tire resting on your new roadbed. Using other squares of plywood to provide traction for the other tires, it should be a simple matter to drive on out. Carpet squares or floor mats can also provide traction. A small



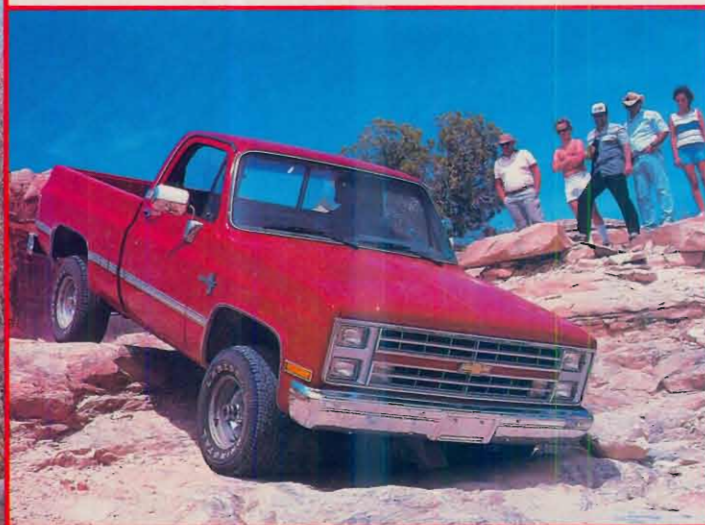
Driving through mud requires just the right speed to keep going.



Some stream beds are smooth enough for upstream travel.

shovel and leather work gloves can help in these kinds of situations.

In extreme cases, whether bogged down in thick mud or where insufficient power or traction is available to climb a steep slope, a winch can be the answer. Winches are available for a wide variety of applications. Be sure



Slow is best on rocky terrain.



Be sure to lower tire pressure before tackling long stretches of sand.



Use a tree protector and a clevis pin to anchor to a tree.

to get one with a *single line rating* about 1½ times greater than your vehicle's weight. Your winch should be able to pull the vehicle's weight plus overcome the added resistance caused by whatever the vehicle is stuck in.

Use an anchor that is sturdy enough to withstand the load you intend to pull. After spooling out the wire rope, use a tree trunk protector — a wide nylon strap with loops, and attach the clevis pin where the loops come together. Hook the wire rope securely to the clevis. *Never* wrap the wire rope around an anchor and hook it back onto itself. The cable will kink and will become permanently weakened and damaged. Keep the wire rope as straight as possible.

Now with the remote control attached to the winch, get into the driver's seat and put the transfer case lever in 4-Low with the transmission in first gear. Start up your vehicle's engine. With both the winch and your 4x4 working together, you should be able to pull out. Be sure to keep bystanders away from the area should the cable snap or the anchor fail.

Winches are also useful in other types of chores: pull stumps and snags, haul firewood out of steep ravines, drag heavy cargo up to your truck for loading, stretch wire fencing, and rescue other drivers in unfortunate situations.

Having a 4x4 with tow straps and a winch is like having a first-aid kit. You can help yourself and others in emergency situations. Sometimes it's inconvenient and a dirty job to help others in distress, but you're going to want every bit of help you can get when caught in the same situation. Be courteous and offer help freely. If you want to make money with your winch get a real tow truck and stay in the city!

Most four-wheel drive systems are classified as *part-time* four-wheel drive as opposed to *full-time*. Part-time four-wheel drive can only be used on sand,



Leather gloves will protect your hands as you work with the wire cable.

gravel, dirt, mud, snow or wet pavement. Using it on dry pavement can damage the vehicle because the two drive shafts will want to move at different speeds. On dry pavement the tires have almost 100 percent traction and therefore cannot slip and give. Stress and damage to the transfer case can result.

When using four-wheel drive you will mostly use 4-High. Driving on wet streets and snow with the transfer case lever in 4-High will provide you with the traction and power you need for safe travel. 4-Low is used only when additional power is needed to get out of a stuck situation like sand or mud and should never be used at speeds over two to three miles per hour. 4-Low is also useful when boulder hopping or descending steep hills. Engine compression will slow you down when descending in 4-Low. Keep your foot off the brake and avoid brake wear.

To avoid excessive clutch wear it is possible to start your vehicle in 4-Low and first gear. The vehicle will begin moving as you turn the key. This trick will help if the engine stalls on a steep hill. With the brake pedal depressed and the emergency brake on you could still roll back once you depress the clutch. Don't do it! The engine is still holding you up there with the transfer case in 4-Low and transmission in first gear. Starting the vehicle without the clutch could save your life.

Idling speed in 4-Low is only about two miles per hour — slower than you can walk. This speed is best for rocky trails. Like a poor man's cruise control, you don't have to touch the accelerator pedal until the steep part begins.

Sand — Driving on sand is not difficult if you remember two things. In minor short stretches of sand you can usually power through with sufficient momentum to get to the other side. Otherwise you will need to bring a tire pressure gauge and a portable tire inflation device — the kind you can plug into the cigarette lighter. By decreasing the air pressure of your tires you will be able to float over the sand better instead of digging in. Eight to 10 PSI will give your four-wheel drive bigger feet.

It's the difference between wearing high-heeled shoes with stiletto heels and wearing snowshoes. One will sink into the sand and one will ride and float on the top.

Never drive your vehicle at high speeds with the pressure reduced. This can cause severe tire damage and even blowouts. When driving at reduced pressure your tires will be fine as long as you take it slow and avoid jagged rocks and sharp turns. After a day in the sand, get out your portable air compressor and fill your tires back up to recommended highway driving pressure.

River Crossings — Before crossing a stream it is a good idea to stop and check a few things before barreling across. Make sure that the stream is shallow enough and that there are no deep holes that will swallow you up. If the river is muddy it might be wise to probe the bottom with a stick. Make sure that the other side has a suitable exit ramp out of the water. A steep bank will not do, especially if the river bottom is covered with slippery rocks. Don't count on too much traction from the front tires. They will be dripping

Four-Wheel Drive

wet.

If everything looks O.K., proceed at a constant rate of speed. If the water depth is greater than your exhaust pipe outlet, you may get into trouble. Keep the engine revving and avoid stalling out. If the engine stalls, water will enter the exhaust system and fill the muffler with water. After this happens it is almost impossible to blow the water out as the starter cranks the engine. You will need to be towed out of the stream. To get the engine running again the exhaust manifolds will have to be removed to relieve the pressure.

Because many river bottoms are rocky, it is important to know how to drive on rocks whether you like boulder hopping or not. Tire pressure should be around normal because you will encounter a lot of dropping, skidding and sideways pressure. A low pressure tire could be easily damaged.

Drive at walking speeds (two to three miles per hour) in 4-Low. Speed causes an unpleasant ride and can lead to damage to the axles and under carriage. Instead of straddling large rocks, place the tire right on them and drive over. This will prevent you from high centering on a skid plate.

Driving in Mud — It's fun to see the muck flying but I consider those who tear up trails and roads "just for the fun of it" environmental vandals. There is nothing worse than driving a trail that was carved up early during the rainy season. The deep troughs and furrows form rock hard scars that make others want to drive off the road causing more damage.

When it is necessary to drive through the mud, take care to scout out the area just as you would a stream crossing. Probe the bottom with a stick and make sure you are not heading into a clay bog that will suck you down for good.

If it looks passable, maintain a reasonable steady speed. Going too fast will cause mud to spray all over the place, coating the windshield and blocking your view. Too slow and you might lose power and stall. Chains may help give you more traction, especially if your tires are more for street use.

Avoid mud that packs up under the fender. Once it reaches the wheel, it

Be sure the cable remains straight when you prepare to winch out.



Use the remote from the driver seat and help power up in four-wheel drive low.



will cause additional friction and interfere with the suspension movement. All of this mud weighs a hefty amount and before long you may be toting an extra 800 to 1,200 pounds of additional weight. If this happens, get out and clear the mud away before the weight causes your tires to penetrate and begin digging instead of making progress.

Snow travel — Slow and cautious is the key. Usually 4-High is sufficient with all weather tires. Always be aware of road conditions. Black ice is the invisible culprit that doesn't care if you have a four-wheel drive vehicle or not. The best way to learn how to drive in snow is to spend a few winters in practice. Snow hides plenty of things so know what is under there before plowing through a drift. Keep moving at a speed which compacts the snow but does not spin the tires. Spinning tires will create ice and ice means no traction. Skidding may occur at anytime while driving in snow so drive slowly. Slow motion skids are a lot safer than high speed loss of control. When coming to a stop, pump the breaks to prevent locking the tires. Skidding tires offer no traction and no control. Allow plenty of space between you and the next car ahead.

It takes practice in all types of terrain to become a good off-road driver. Don't wait until monsoon floods or the white-out blizzard to learn correct driving skills. A prepared survivalist will know his equipment and be able to help himself and others in emergency situations. ●

The Four Wheel Drive Survival Kit

Navigation:

- topographic map
- Forest Service map
- highway map
- Silva-type compass
- trail books
- note pad and pencil
- altimeter
- binoculars
- CB radio

personal protection:

- water in heavy-duty plastic jug
- space blanket
- emergency food
- road flares
- high intensity lightsticks
- sleeping bag
- knit cap

getting unstuck:

- leather work gloves
- shovel
- jack
- plywood squares
- carpet squares
- portable air compressor
- tire pressure gauge
- winch
- tow strap & sling

basic emergency auto equipment:

- general tool kit
- spare tire
- extra fan belts
- extra electrical fuses
- jumper cables
- fire extinguisher
- extra car keys



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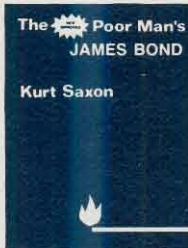
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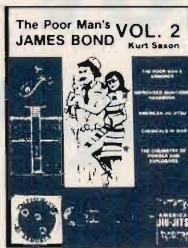
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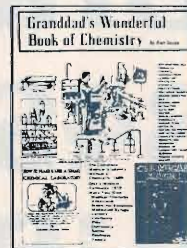
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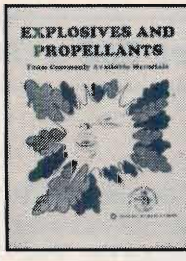
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NDM-86 Dragunov & 84S AK-47 Rifles



This Type 84S AK-47 rifle in .223 caliber will fire the new U.S. M855 military ammunition.

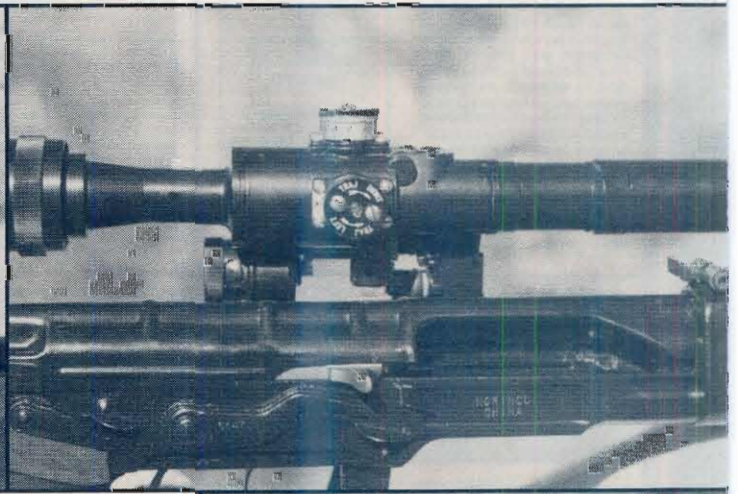
PRC-made Soviet 7.62 x 54 sniper rifle, fiberglass-stock .223 AK-47 rifle. . .

By Jim Benson

THE Soviet 7.62 X 54mm R SVD or Dragunov sniper rifle was used by communist forces during the Vietnam War and has been in service since then with Soviet and other communist armed forces.

China North Industries Corporation (Norinco) of the People's Republic of China produces its own version of the Dragunov and distributes it in the United States through China Sports, Inc., of Santa Fe Springs, California.

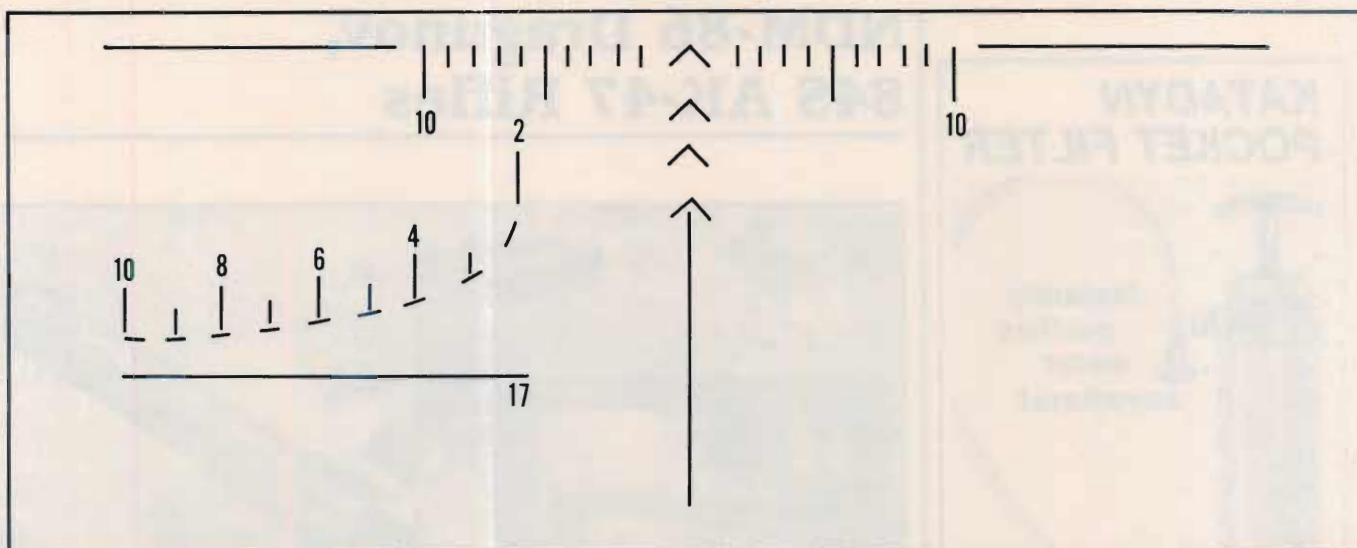
The Norinco Dragunov is a faithful copy of the original Soviet weapon, including the PSO-1 4-power scope that comes with the rifle which has lighted reticle and infrared detection capabilities.



The 4 X sniper scope that comes with the Dragunov has a lighted reticle for low light conditions and infrared detection capabilities. It has a machined mount attached to it that slides onto and locks down on an integral scope mount rail on the left side of the receiver.

The norinco Type NDM-86 Dragunov SVD sniper rifle is capable of outstanding accuracy. Note the two sets of touching hits in this group fired from 100 yards by a shooter unfamiliar with the rifle.





This is the reticle and range finder one sees when looking through the Dragunov scope. The range finder (at left) is designed to give the range of a target 5-feet 7 inches high from between 200 and 1,000 meters distant. Aiming point is the top chevron on the reticle.

The Norinco Type NDM-86 Dragunov rifle, which the ASG staff test fired with surplus 7.62 X 54mm R military ammunition from the PRC comes complete with scope and fitted, locking case that carries five 10-round magazines, other spare parts, sight adjusting and repair tools, and cleaning kit.

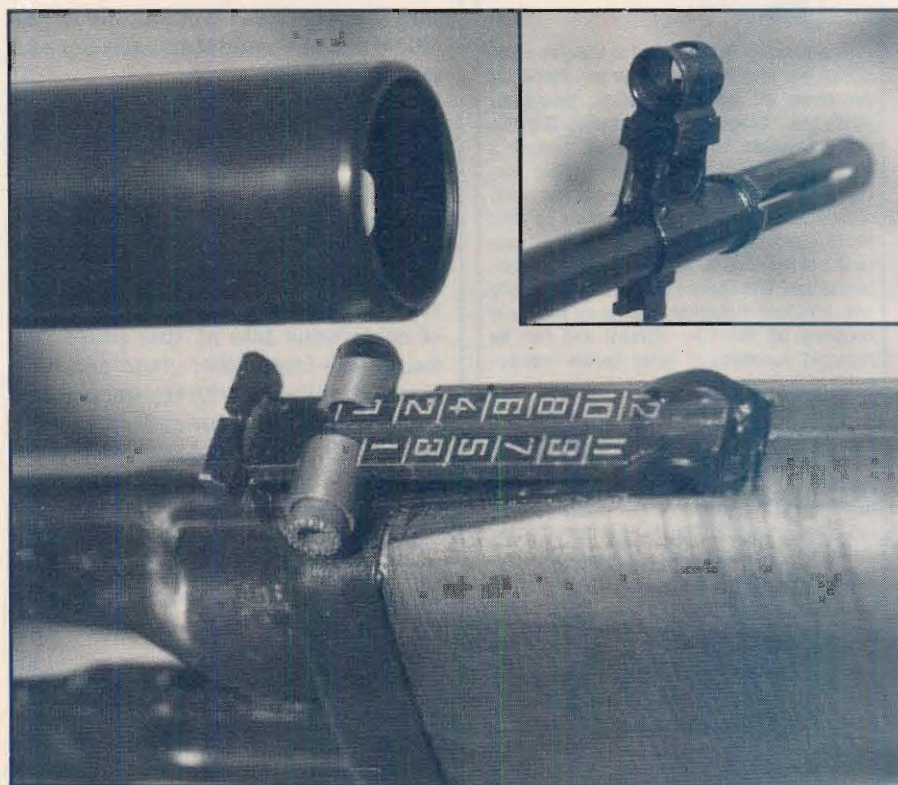
The scope is adjusted for elevation and windage by click adjustable knobs on its top and right side. The range of the target is determined, after the scope is zeroed for 200 meters, by placing the target in the scope's military type range finder, checking for distance from 200 to 1,000 meters and then turning the elevation knob on top of the scope.

The scope is equipped with a switch that lights up the reticle for use in low light conditions as well as with an infrared detection switch that flips up an infrared filter permitting the user to pick up infrared light sources. A rubber eye piece prevents side light from obscuring the sight picture and makes sighting through the scope easier in low light conditions.

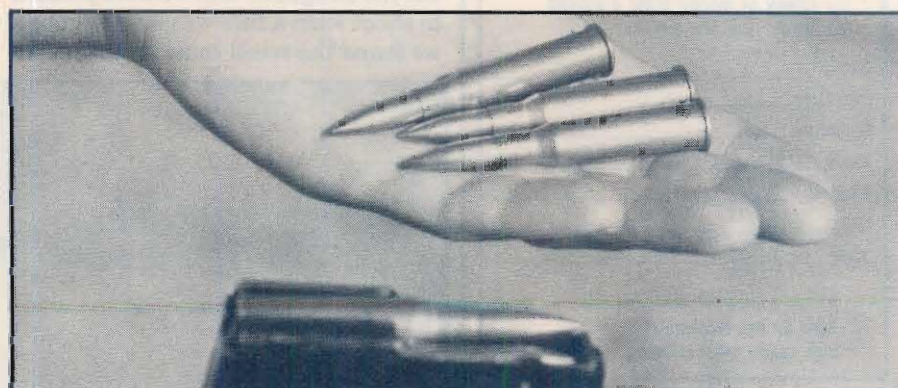
The scope has a machined mount attached to it that slides onto and locks down on an integral mount rail on the left side of the receiver. Standard AK-type iron sights can be used when the scope is removed.

The receiver is machined steel and the steel barrel has a hard chromed bore. The Dragunov's stock is laminated wood. There is no bipod for the rifle. The Russians use improvised rests for the weapon and a bipod would make shooting it a high profile operation.

The Dragunov has an action closely resembling that of the AK family of



The Dragunov's iron sights can be used if the scope is removed.



The powerful 7.62 x 54mm Russian cartridge fired in the Dragunov is comparable to the .30-06 round.

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NDM-86 Dragunov, 84S AK-47 Rifles



The butt stock and fore end are laminated wood.

rifles. It fires the powerful 7.62 X 54 mm R cartridge — comparable to the .30-06 round — semiautomatically and is gas operated.

Overall length is 48.2 inches. Barrel length is 24 inches. Weight is 9.5 pounds empty.

While we did not have the opportunity to test fire this rifle at long ranges, our test shooting at targets 100 yards distant using an improvised rest revealed that the NDM-86 is capable of contiguous hits at this range. We found this impressive given our relative unfamiliarity with the weapon and limited time and ammunition to work with it. I'm convinced that with practice I could be shooting one-hole groups at 100 yards.

Norinco bills this rifle as being "easily capable of minute-of-angle accuracy under the most demanding conditions." We now see why they make this statement.

While we did not extensively test fire this weapon, we fired numerous 10-round magazines full of ammunition through it without any malfunctions.

This was our first opportunity to try out the Dragunov and we were pleased to shoot such a fine weapon, although we found the recoil considerable when

firing the 7.62 X 54mm rimmed Russian cartridge.

Suggested retail for the NDM-86, including scope, carrying case, spare parts, etc., is a hefty \$3,900, but this should be weighed against the rifle's accuracy and functional reliability.

Type 84S AK-47 — The Norinco Type 84S AK rifle in .223 caliber provides the shooter with the capability of using the new U.S. military M855 (Belgian SS109) round in a weapon of the proven AK design that is also equipped with a fiberglass stock that is longer than the usual AK stocks, making it more comfortable to use for taller people with longer arms. The buttstock is 1½ inches longer than the standard AK buttstock.

Finish for stock, barrel and receiver is matte black. The 84S has standard adjustable AK-47 sights. Overall length is about 37 inches. Barrel length is 16.34 inches. Barrel bore is hard chromed. This rifle, like the Dragunov and other AKs, has positive "click down" safety lever on the right side of the receiver below and to the rear of the ejection port. Weight is 8 pounds, 1.5 ounces empty (without magazine).

(Continued on page 68)



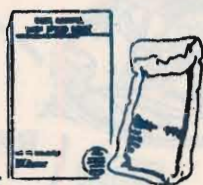
The matte black fiberglass butt stock and fore end of the 84S rifle.

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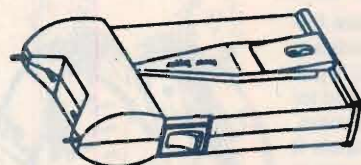
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\$39.00 + 2.00 S&H

Nylon Holster: For those who will carry their Stunner all of the time. #7780
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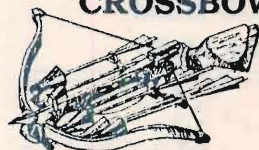
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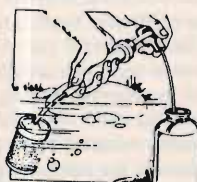
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3 Spanish Shirts

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Issued/Excellent

Genuine G.I. Issue ripstop poncho. These are O.D. ripstop, waterproof ponchos that are large enough to cover a large pack and can even be used as a temporary shelter very lightweight and durable. One size fits all. Can be folded very compactly. Used-Excellent with only small holes or repairs. Brand new these sell for up to \$40.00 #0528

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Issued/Excellent

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These pants are almost like new—really they are. These are made for German winters—they weigh 3 lbs. a pair. They are all wool and have six pockets that have button flaps to keep the snow out. Two are large cargo pockets for carrying lots of equipment. An outstanding feature is the double knee area—two layers of wool sandwich a water-proof layer so you can kneel on the snow without getting wet and cold. I could go on and on, but these pants have all the features—and would cost \$100 or more if anything like them were made for the retail trade. Sizes 29 to 37 are in abundance—larger sizes cost us more. We come as close as we can—but usually you must alter at least the length. #0464 Regular Price \$27.50 + 3.00 S&H



\$17.50 + 3.00 S&H
Sizes 38 and over
please add \$4.00 per pair



Matching Winter Wool Shirt

These shirts fit together with pants above. Double elbows, deep pockets. Available in small, medium, and large only. #0304 reg. \$17.50 + 2.00 S&H.

\$8.95 + 2.00 S&H



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\$2.50 + 1.55 S&H
3 pair \$7.50 ppd

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I try to stay away from Asian imported knock-offs of U. S. military products. But this N-2B copy is just too well made and too well priced for us not to offer them to our customers. I believe that if you did not know it was a copy you would be unable to tell by wearing, feeling or comparing to a genuine one. Using the same quality material inside and out - even down to the same long white acrylic collar - and the same demanding workmanship, the importer has made sure the only thing different is the price. We have them in all sizes from Small to Extra Large but in the popular black only. We sell issue N-2Bs for \$85.00. If you have always wanted a fine winter coat but could not fit it in your budget, we guarantee that you will not go wrong with this one. #0848 - Regular Price \$59.00 + 5.00 S&H



\$45.00 + 5.00 S&H
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Great Looking and Keeps You Warm



A copy of the standard military flight jacket made by the same people who produce the N-2B above. You get the same tightly woven satin nylon shell with flap pockets, zippered sleeve pocket, knitted cuffs, collar and waist, and heavy duty zipper with inside storm flap and other features in the issue MA-1 and at about one half the price. Reverses to orange nylon with snap covered pockets. The 5.5 ounces of filling has kept military warm for years. Standard issue Sage sateen, in extra small to extra large. #0947 Regular Prices \$59.95 + S&H

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Navy Strobe Light

*High visibility,
element proof military
flashing light. . .*



Staff Report

EMERGENCY signaling and even sending code messages is possible with this Navy contract strobe light. Designed for the Navy to replace lithium battery-powered models and to provide high visibility under all types of weather and fog, the xenon tube strobe is powered by an ordinary D cell battery (alkaline is recommended).

A three-way off-on switch permits you to send messages via code by controlling the strobe effect. This unit has been tested and provided more than 40 hours of continuous flashing light

on one battery.

The Navy rates the strobe at 20-mile visibility at 600 feet. The robust, impact plastic case is element proof and has a large safety pin-type fastener on it for attaching to web gear, life vest, etc. A must for survivalists, boaters, hikers, snow mobilers, wilderness travelers, pilots, etc.

Available for \$22 postpaid (\$25 postpaid Alaska, Hawaii & Canada) from Sierra Supply, Dept. ASG, P.O. Box 1390, Durango, CO 81302; (303) 259-1822. ●



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Battery Test

How well do the long-term storage batteries stack up against standard and alkaline store-bought batteries?...

Staff Evaluation

MOST of you are probably familiar with the R20-D storage batteries sold by several of our advertisers and you may have seen recent ads for the new "Code Red" 20-year storage batteries.

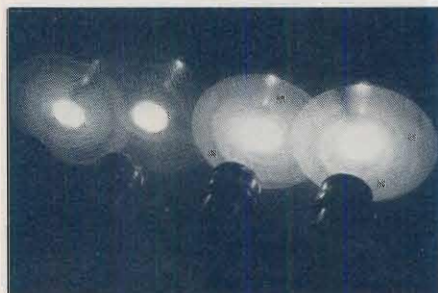
We were interested in seeing how these storage batteries performed compared with standard store-bought batteries, so, with the help of Harry Weyandt of NITRO-PAK Storage Foods & Emergency Supplies (11018 E. Rosecrans Ave., Suite 300, Norwalk, CA 90650, 213-929-4705) we set up a test.

The R20-D non-toxic, twist-top power cell storage batteries have been on the market for years and are sold by NITRO-PAK and many other retailers across the nation. Developed by Ultimate Survivor of America, Inc. (this company went out of business when it was sold to another company), the R20-D batteries were guaranteed to have a storage life of up to 10 years if not activated by twisting their top. The new Code Red 20-year storage batteries are supposed to be an improved version of the R20-Ds and are very similar. The Code Red batteries are also activated by twisting the top, are non-toxic and are guaranteed to have a storage life of 20 years if not activated. They will be replaced by Code Red, P.O. Box 590, Bellevue, WA 98009, if they do not have a shelf life of 20 years (assuming this outfit doesn't go out of business before you find out) or are defective in use before that period of time. Return defective batteries postpaid. These batteries are not supposed to be mixed with other batteries or recharged.

Using sample Code Red batteries, R20-D batteries and military angle-head flashlights supplied by NITRO-PAK, we purchased some standard D-



The military anglehead flashlights and batteries used in the test. Note brightness of beams.



The brightness of each flashlight's beam is more apparent in this photo taken of the test flashlights in a darkened room. The batteries in the flashlights are from left, R20-D, Code Red, Thrifty Heavy Duty standard and Duracell Alkaline.

cell batteries and some Duracell alkaline long-life D-cell batteries from a local drug and discount store for the test.

On the day of the test we began at 9:45 a.m., placing two of each type of battery in the flashlights and turning them on.

While we noticed that the Code Red and R20-Ds were less bright than the store-bought batteries, they were still adequate for lighting and doing work in darkened areas. We tried the flash-



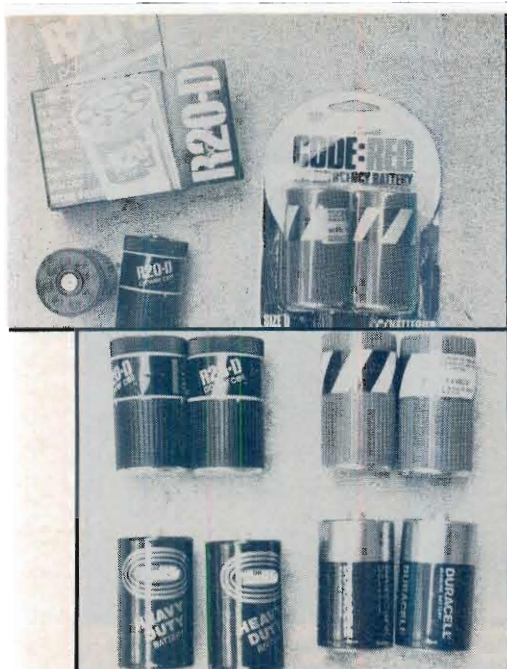
Here are the test flashlights and their beams some 6½ hours after the test began. The Code Red-powered flashlight has lost its beam and is no longer effective.

lights out in three different darkened rooms to determine this.

The flashlights were left on for the rest of the test and monitored throughout the day for brightness.

Three hours later, at 12:45 p.m., we could clearly see that the alkaline batteries produced the brightest beam and the Code Red batteries the weakest. However, the Code Red and R20-D-powered flashlights were still adequate as light sources in the dark.

At 3:30 p.m. all the flashlight beams had gotten weaker, with the Code Red



The batteries used in the test. The R20-D and Code Red long-term storage batteries were somewhat weaker than store-bought batteries and didn't last as long but were still effective for several hours of continuous use.

the weakest and R20-Ds the next weakest and the alkalines still the brightest, but all were still usable to see and work by in the dark. By 3:47 p.m., some six hours after the start of the test, the Code Red batteries died and the flashlight they were in lost its beam. By 4:15 p.m., the R20-D flashlight beam was quite weak and barely usable, while the other batteries were weaker than they had been but still usable.

At 6:45 p.m. the R20-D flashlight beam was almost out and all but useless for seeing or working by. The other flashlight beams were weaker than earlier but still useful, with the standard store-bought batteries barely useful. Three hours later the standard batteries flashlight had almost gone out and was almost totally useless to see by, while the alkaline-powered flashlight still had a fairly bright beam that you could light your way in the dark by or work in the dark by. At this point, 12 hours after the test was begun, the test was ended.

The alkaline-powered flashlight was turned off. The next day it was turned on again and found to be still effective. Using this test as an indicator and assuming that the R20-D and Code Red batteries store for as long as they are supposed to (the R20-D batteries we used were estimated to be at least three or four years old), you could count on having four to six hours of usable light or other power from the Code Reds and about the same, perhaps a little more, from the R20-Ds. •

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This tool is an easy and reliable method for picking tubular locks as found on vending machines, washers, dryers, etc. The newest high-tech design is much faster and easier to use than

the old style. Internal neoprene "O" rings together with knurled collar provide simple and easy tension adjustment. This tool will, with a little practice, easily and quickly open any center-spaced tubular lock — the most popular and widespread type on the market. Comes with complete instructions, tubular key and pick decoder and leather carrying case.

#600 Price: \$129.95

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- #781 Lock Picking Simplified. \$ 6.00
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Phoenix Systems, Inc.
P.O. Box 3339A
Evergreen, CO 80439
Phone: (303) 674-2653

Night Guard

The Dutchman:

Portable flood light/alarm security system . . .

Staff Evaluation

NIGHT Guard Portable Security System works by detecting the movement of an object of one temperature against a background of a different temperature using an infrared sensor.

Once the unit detects movement in an area 50 feet long and 100 feet wide in front of it, it activates the built-in flood light or the built-in alarm and flood light which shine/buzz (at 85 decibels) for four minutes before automatically shutting off until the next movement is detected. A switch at the back of the unit gives the operator the option of using only the light or the light and the alarm.

All that's necessary to set up the system is to position it and plug it in to any wall outlet. The flood light/alarm will be on for the first four minutes, then automatically shut off until movement is detected. The system is operational as long and there is electric power available.

The unit uses the Mullard-Amperex KRX-11 Passive Infrared Sensor. Virtually all circuitry has been integrated into a single IC chip, made by Motorola Semiconductor which has been electrically tested three times before purchase. Besides being quick and easy to use and portable, the Night Guard system can accommodate additional lights with its receptacle in the main unit, so you can also flood light other areas as well as the area where the main unit is operating.

The Night Guard comes with complete instructions, yard spike, wall mounting bracket and padded bottom for table top use. It is well made and is designed for indoor or outdoor use. All that's required is the purchase of a standard PAR 38 flood light (150 watts maximum) available at any hardware store.



Switch on back of unit gives user the option of operating the flood light and alarm buzzer or only the flood light. Additional electrical plug below switch allows more than one flood light to be used with the unit.

The system comes with yard spike, wall mounting bracket and pads for table top use (not shown) and is designed for indoor or outdoor use.

The unit is small (6" by 4" by 8") and light (3.5 pounds) and comes with a one-year warranty.

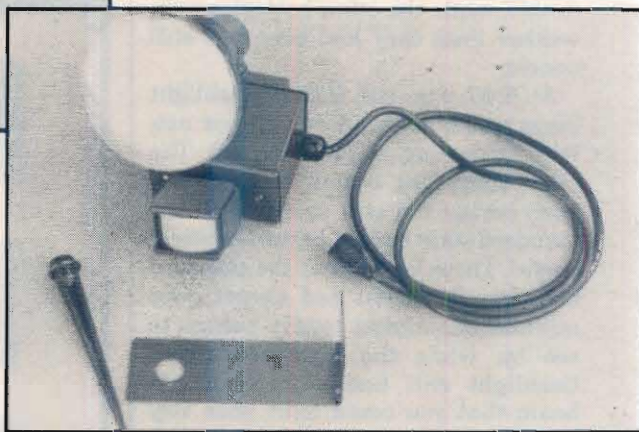
We tried the Night Guard in a back yard at night time as well as in an office and it works perfectly. You should be prepared for the loud buzzing of the alarm for the first four minutes of operation. There's no way to avoid the alarm buzzing for the first four minutes after it's plugged into an electrical socket if you want to use the alarm as part of the unit. For silent, flood light-only operation, simply flip the switch at the back of the unit.



The Night Guard portable security system flood light/alarm uses a passive infrared sensor to detect intruders.



A PAR 38 flood light (maximum 150 watts) must be purchased for use with the Night Guard.



This is a rugged, dependable portable security system effective anywhere you have 120-volt AC current available. Ideal for home, RV, business sites, and elsewhere. One drawback is that unplugging or otherwise cutting the electricity source instantly deactivates the unit, so care should be taken to assure a continuous source of electrical power.

Available for \$84 plus \$3 S&H from The Dutchman, Dept. ASG, P.O. Box 12548, Overland Park, KS 66212; (800) 821-5157 (Missouri customers call 816-221-3581). ●

Minerals:

Rock Medicine

Who would suspect that your rock garden or that pile of stones behind the garage is actually an emergency store of medicines?...

By T.R. Zimmermann

Photos by Dennis Ellington

IN the quest for good health and relief from illnesses, man has traditionally turned to his surroundings in search of remedies to his many afflictions.

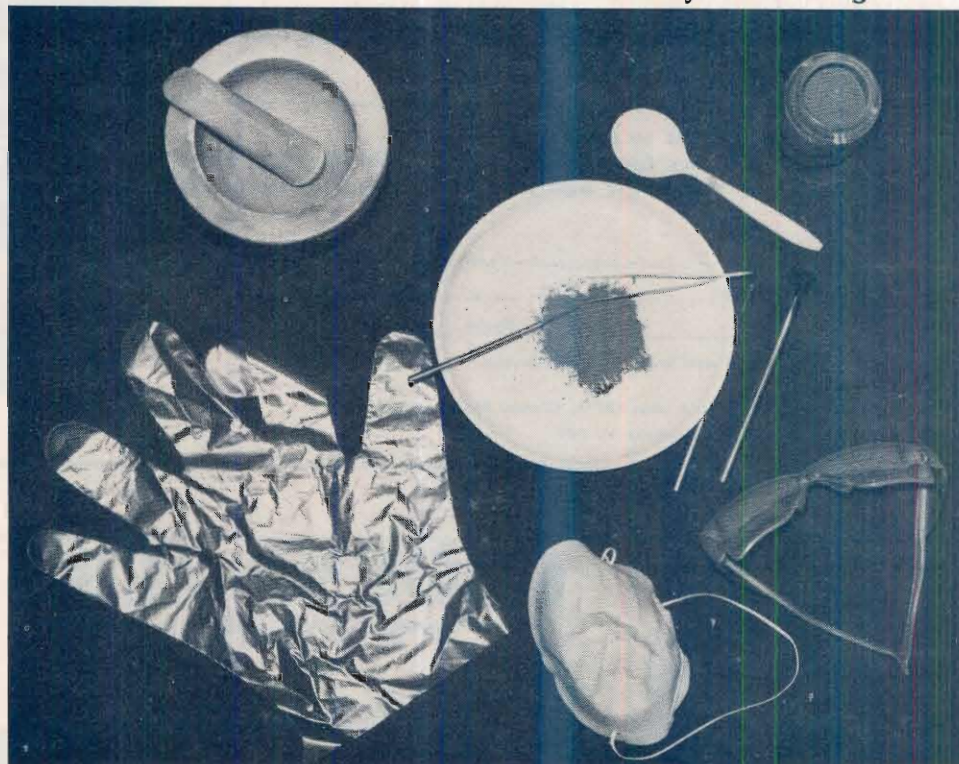
Wild plants, insects, rocks, minerals, clays, mud, water, sunshine, snow, ice, and various animal products were once used to soothe all manner of maladies. They are the basis of modern medicine, especially in today's antibiotic therapy and chemotherapeutic practices. After research unlocked their mysteries, many of the magical cures of ancient times are now the miracle drugs of the present.

We live in an age of space discovery and amazing scientific accomplishments, yet much of the health care we have come to expect remains in the Dark Ages. The problem lies in the distribution of life-giving medicines. Any major disaster could disrupt the vital flow of necessary medications to the public and cause needless loss of lives.

To hedge against an uncertain future, part of your budget should include the purchase of first aid materials, "how to" medical books, prescription drugs, soaps and disinfectants. A well planned stockpile of health aids is a good way to insulate yourself from possible tragedy.

However, no matter how prepared a family may be, their stocks will eventually be used up, damaged, lost, or worse, confiscated by the surviving authorities following a cataclysmic event. It seems those who prepare for disaster are usually persecuted by the people who do not.

In a survival situation, a first aid kit is limited to the boundaries set by its contents. Any extension beyond its scope means improvisation with what is at hand. Supplements will have to



The final preparation phase: sieving and transferring the medicinal powder to storage jar. Note safety items.

be added to the medical supply.

An awareness of what the natural environment has to offer is a helpful key in the dilemma of what to use and what not. A quick check in your own backyard can reveal a wide variety of medical sources. Fortunately, most patented or over the counter medicines have their local equivalents in the rocks and minerals that exist with us.

The study of rock medicine is a simplified task as rocks and minerals have a world-wide distribution, are available year round, can be gathered in huge quantities, easy to store, have a low cost of preparation, and preservation is indefinite. An added factor is the unlikelihood of theft, as who would suspect your rock garden or that pile of rocks behind the garage is actu-

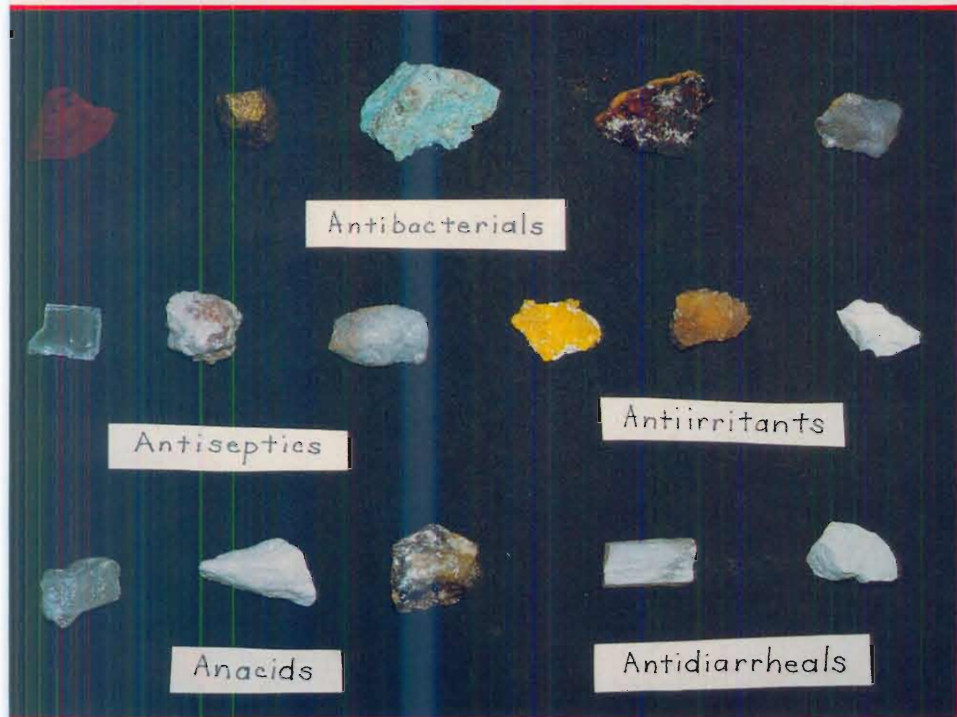
ally an emergency store of medicines.

Only a few aids and tools are needed to collect medicinal rocks and minerals. A survey kit composed of rock hammer, pick, chisels, 2-10x magnifying lens, plastic or cloth tote bags, description name tags and topographic or county road maps to record the locale for future reference. A sling pack to carry the stones is a must-have piece of equipment.

At campsite or at home, an analysis kit is essential to study the special characteristics of each specimen. In the kit are three units: the acid test (two glass eyedroppers and two separate vials of nitric and hydrochloric acids), the streak test (porcelain tile plates), and the hardness test (1-10, talc to diamond). They are used to determine



Rocks made into medicinal powders, ready for use or storage.



Rocks and minerals with medicinal properties. Top row from left: Hematite, Pyrite, Malachite, Cerussite, Smithsonite. Middle row from left: Halite, Sylvite, Niter, Sulfur, Zincite, Epsomite. Bottom row from left, Calcite, Dolomite, Magnesite, Talc, Kaolinite.

if a rock or mineral will bubble or dissolve on contact with the acids, to check its color when rubbed on a tile, and to find its position on the hardness scale. Always keep complete records of your finds and their test data for comparison with a reference book or this brief article.

Rock shops, lapidaries, and gem-making businesses have the survey tools, analysis and test kits, reference books, and are a handy source of com-

parison specimens. A visit to a museum, library, university or public school's science department to view their rock and mineral displays is an educational experience. Your chamber of commerce can assist in contacting rock-collecting clubs and associate organizations. Seek out expert rock hounds, mineralogists, and geologists to help guide the development of your own rock and mineral collection. Their personal knowledge of where to collect

in your home territory will save both time and effort.

To prepare a rock or a mineral into medicine, first shave off the oxidized outer crust and unwanted debris with a small hammer, chisel and wire brush. Each specimen must be reduced to a fine dust similar in consistency to powdered sugar. The safest method is to put the rock inside a canvas bag or a roll approximately one size larger, and tie closed the loose end. Place the bag on a solid surface, such as a cement slab, and smash with a 3-5 pound sledge hammer. Use short, well controlled strokes to thoroughly crush the specimen.

Next, pour the powder onto a mesh screen or sifter over a collecting plate to sieve out any uncrushed fragments from the finer grains. Sift through the filtered powder with a long non-ferrous needle or tweezers to detect and remove any crystals, splinters or hard granules for further reduction in a mortar and pestle. During this phase of the operation wear protective eye-wear, dust filter mask, and plastic gloves as some mineral dusts can irritate the eyes, cause bronchial and respiratory illness, or blister the skin with a burning rash.

Finally, transfer the powder into glass storage jars with a plastic spoon. Select jars with tightly sealed plastic tops to prevent contact with moisture, heat, and metals that may contaminate the end product. For long-term storage, use plastic wrap or wax as lid liners and put the properly labelled jars in a cool dark place or bury in a cache.

All minor wounds and major injuries are dangerous sites for infection, and must be treated aseptically to prevent serious complications. Most medicinal powders are applied to wounds as dusting powders, pastes, or as ointments. Some can be ingested in gelatin capsules or as infusions for dietary supplements and to treat gastrointestinal ailments.

For external application as a dusting powder: fill a clean sock one half full of selected powder, shaking it down towards the sock's toe, and tie a knot above it. Lightly pat to permeate the powder through the loose weave of the fabric. Use like a powder puff to sprinkle a thin film of medicinal dust upon the wound.

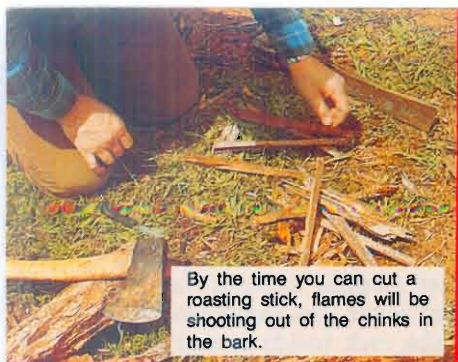
A paste is a thick mix of powder and water, and is painted directly onto the wound. In many cases, an ointment is better as a protective emollient to keep the wound moist and supple as it heals.

(Continued on page 64)

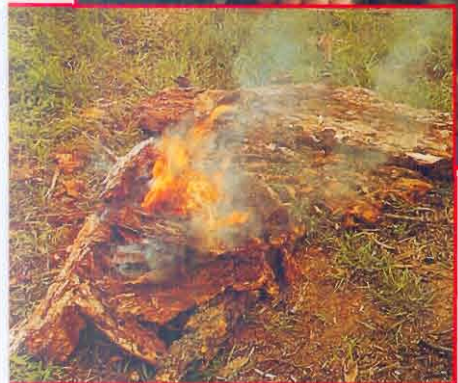
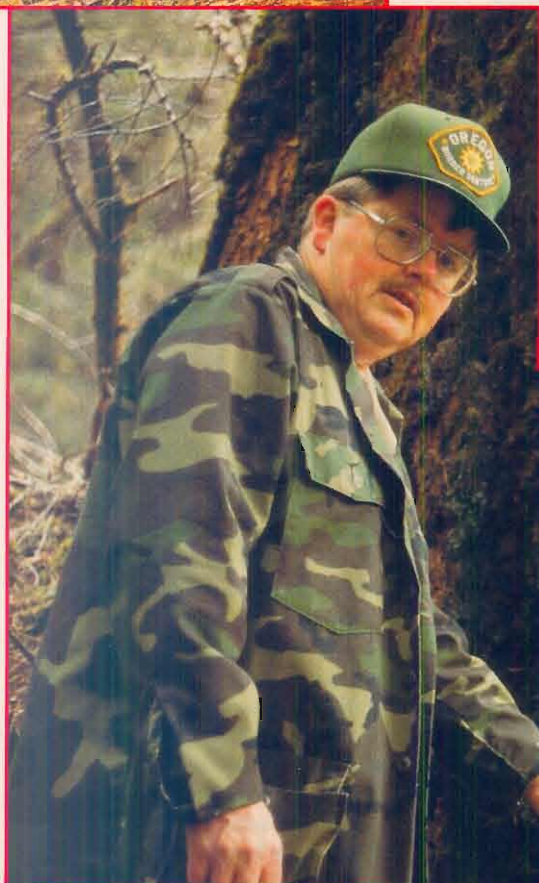
All-Weather:

Surveyor's Bee-Hive Fire

*Douglas Fir
and a dry match
are all you need...*



By the time you can cut a roasting stick, flames will be shooting out of the chinks in the bark.



Old growth bark is often 12 or more inches thick.

Shavings and kindling
made of pitch wood just
beginning to burn.

Everything needed for the
surveyor's bee-hive fire
but the match.



By William C. Sheppard

HERE in the rain-soaked Northwest, materials for by-the-survival-book fire building are hard to come by. At the same time, the almost unlimited opportunities to venture into thousands of square miles of rugged out of doors in all kinds of rapidly changing weather make it almost certain that sooner or later your life

might very well depend on your ability to build a fire.

If you are anywhere that Douglas Fir trees grow or grew, and that includes a large portion of the United States and Canada west of the Rockies, a little knowledge and a dry match are all you really need to soon by drying out and warming up in front of

a roaring fire no matter what the weather.

The surveyor's bee-hive fire seems to have originated among the surveyors and timber cruisers that made their living traveling long distances and working on foot in all kinds of weather in the rugged rain forests between the Pacific Ocean and the Cascade Moun-

tains in Washington and Oregon.

I have worked on many survey crews in this country and at least one member of every crew knew this fire building secret. On the other hand, I have never met anyone else, logger, construction hand, big game hunter, cross country skier, or back packer, that knew about the bee-hive fire unless they had an uncle, father, or grandfather who had worked on a survey crew.

The real secret is to learn to recognize burnable fuel when you are looking at it. Douglas Fir has a peculiar tendency to concentrate all of the natural oils and resins, distributed in life more or less uniformly throughout the trunk of the tree, into the very heart of the trunk near the roots after it dies. Even very old stumps of trees that were cut in early day logging operations will sometimes do this. The result is a heart wood that has the appearance and feel of amber colored paraffin and smells, when cut or broken, as if someone took the cap off a can of turpentine.

This is the king of pitch woods. Unfortunately, to the uninitiated, it is almost totally hidden under a pile of rotten, soggy wood that was the bark and outer layers of the tree when it was alive. Usually the only clue will be a spike of wood protruding out of a moss and duff covered mound.

In an undisturbed old growth forest there will also be other similar mounds and spikes that will turn out to be the remains of totally unburnable Hemlock or true-fir trees. However, it only requires a minimum of perseverance or experience to find a useable Doug Fir heart wood spike. As soon as you break it off, the smell and feel will leave no doubt.

small enough pieces with your bare hands to obtain long slivers that will light and burn as easily and as hotly as a candle. These in turn, can light the rest of the spike to be used as a torch or as fuel for a hot, but smoky, fire.

If you have had any forethought at all about your outing though, you will have at least a pocket knife with you to cut shavings and split kindling, producing the same life-giving fire much more easily.

The heart wood pitch by itself easily produces that most important item of foul weather survival — a fire. If there was one Doug Fir snag there are almost certainly more in the immediate vicinity and it will not be too hard to keep your fire going. However, the pitch wood is really too good a fuel.



As long as you don't cut too deeply, bark removal leaves the tree unharmed.

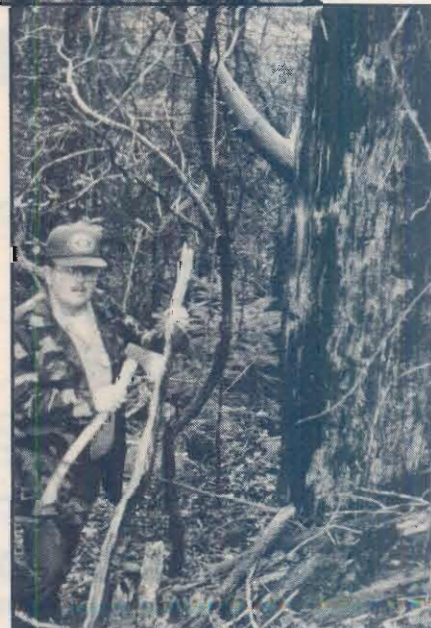
Concentrated in the heart of the tree is the king of pitch woods.

It is so full of resin it burns rapidly, hotly and with a lot of oily smoke, very much as an old automobile tire.

In an old growth Doug Fir forest, an old burn, or in second growth that was originally harvested 50 or more years ago, there is a plentiful supply of a more long lasting fuel just waiting to be added to your pitch wood tinder.

The bark of old growth Doug Fir is a thick cork-like substance that grows in huge plates and slabs, often 12 or more inches thick. While the surface may be rain soaked, the moisture on a standing tree, dead or alive, never penetrates more than a half inch from the surface.

Again, the bottom line is that it is possible to get a grip in the fissures between the plates and literally rip chunks of bark from the tree with your bare hands. Again, a little preparedness in the form of an axe, hatchet,



The real secret is to recognize burnable fuel when you see it.

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Surveyor's Bee-Hive Fire

or large knife makes the task a lot easier.

I have actually slabbed great chunks of bark from trees with a single blow of my cruiser's axe that weighed more than I did. This bark even with its rain-soaked surface is such a good fuel that the old-time logging camp blacksmiths used it in place of coal or charcoal for their forge fires.

And this, finally, is where the name bee-hive fire comes in.

The weary surveyor or timber cruiser, as lunch time neared, would collect some pitch wood almost incidentally to his working along through the woods. Finding a reasonably flat and sheltered spot for his noon-day fire he would take his axe and start to make kindling and shavings of the pitch wood while his partner slabbed bark off a nearby Doug Fir. His partner would throw the pieces to within his reach as he was lighting the tinder. While he started to stack the pieces of bark in a circle and then on top of each other, his partner would be cutting a couple of forked Viney-Maple sticks. By the time the second man returned, flames would be shooting out between the chinks of bark stacked in the form of an old fashioned bee-hive. Within 10 minutes of the time the pair stopped, they would be sipping coffee from their thermos and toasting their sandwiches on the forked sticks over the fire.

In the 30 years I've spent in the Pacific Northwest woods I've only seen this fire-building method fail once. One nasty winter day we were working in nearly a foot of wet snow with more coming down all the time. We got in under a big Hemlock with limbs nearly to the ground. We had just got our fire going and our coffee poured, when the heat of the fire dislodged a full wash-tub of snow directly on the fire. I have never seen a fire put out more quickly or completely. It didn't even leave any lingering smoke.

Note: To those of you concerned about damage to the ecology. I don't advocate slabbing bark from living trees except in an emergency or when deep in the woods away from most of the tourists. It does leave a tree rather unsightly, but completely unharmed as long as you don't cut deeply enough to disturb living wood. ●

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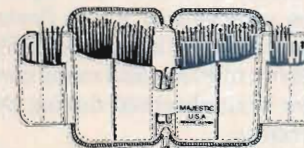


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USSR:

Camouflage Uniforms of Spetsnaz and Other Soviet Forces

The Soviet Army has used a variety of camouflage uniforms over the past decades. . .

The author, who resides in Paris, France, is a former colonel in the French Air Force medical corps. He has a collection of more than 200 military camouflage uniforms from around the world — The editors.

By J. F. Borsarello, M.D.

WITH a permanent, immediately serviceable force of 30,000 men, Soviet Spetsnaz or special forces over-class the military special forces of any country in the world.

There are 16 Spetsnaz brigades, each one of 1,300 men, dispatched here and there in the military forces of the Soviet Union. There are also little groups of 115 men, independent companies, made up of three paratroop sections and one support company. The USSR Navy also has four Spetsnaz brigades attached to naval fleets.

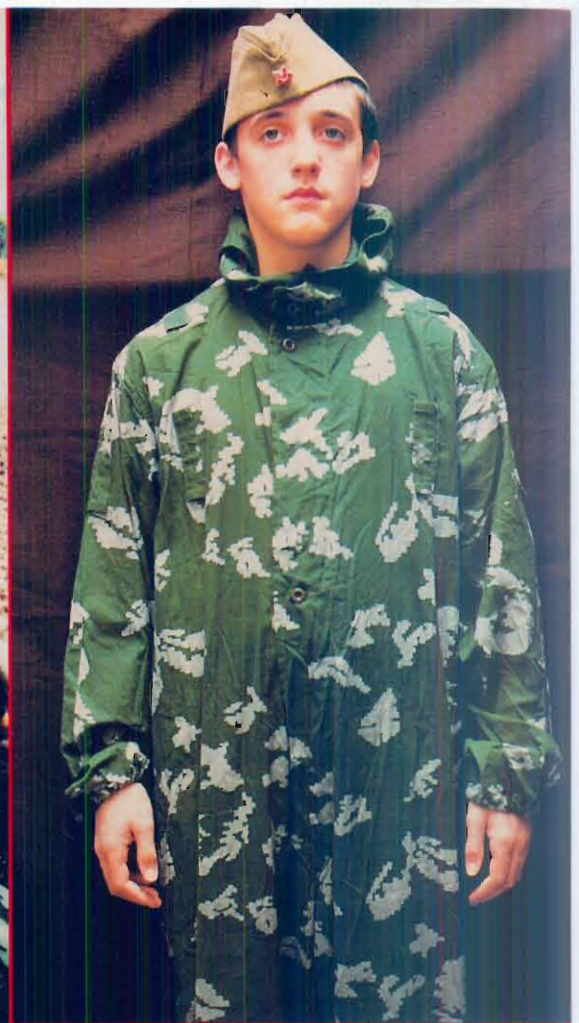
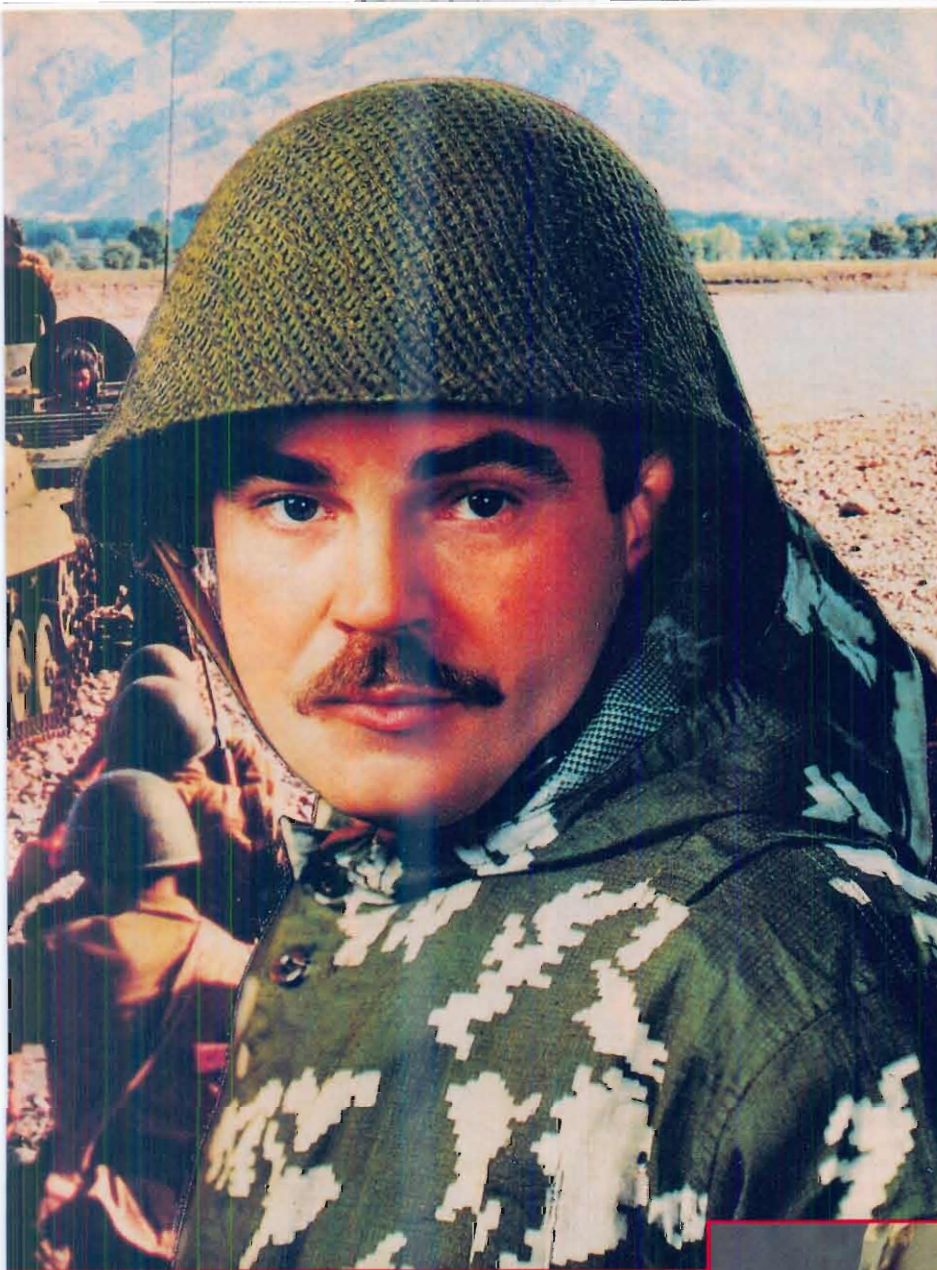
Spetsnaz training is the most difficult in the Soviet military and many casualties have been observed during training exercises.

After two months of indescribable hardship in training, only 20 percent of the Spetsnaz candidates are kept. This little group then receives further, specialized training, including parachuting and operational exercises in remote areas of Siberia. These groups often stay well camouflaged for weeks at a time.

Equipment of a Spetsnaz trooper includes a Kalashnikov 5.45 mm assault rifle with a special silencing system, 300 cartridges, a P6 silenced pistol, a combat knife, six hand grenades and



Certain Bulgarian military units received the Soviet 1980 pattern camouflage but the Bulgarian Army also has its own camouflage uniforms.



These photos show the 1980 USSR camouflage coverall KLMK (from a Russian book cover and the author's collection).



This infrared photo shows the new Soviet coarse camouflage material with black carbon in polyester. An ordinary Soviet uniform is easy to spot at left while the new material, worn by the soldier on the right, is difficult to see.



The coarse material camouflage worn by Soviet Spetsnaz snipers which is designed to prevent detection by infrared sensors.

Camouflage Uniforms of Spetsnaz and Other Soviet Forces



In this simulation, Soviet soldiers search an Afghan rebel with his Pakistani camouflage suit. On the left is the new coarse anti-infrared camouflage uniform and on the right the KGB camouflage suit.



A rare photo of the new brown camouflage of the Soviet Army. This photo was taken by Y. Debay during Western military maneuvers in Turkey where Russian military "observers" wore the new pattern.



A two-piece Soviet uniform of the new 1985 camouflage pattern (from the author's collection).



In this archive photo Soviet soldiers wearing the coarse camouflage are seen with Polish soldiers during maneuvers.



Albanian Army soldiers wear the USSR 1980 camouflage uniforms.

grenade launcher. Spetsnaz units are also equipped with rocket propelled grenades and missiles, mines and other high powered explosives as well as R 350M sequential radios which send messages in sequences of 8 to 10 seconds to avoid detection by enemies.

The basic Spetsnaz unit is the special operation brigade, or Spetsialnyi Naznacheniya, and it is similar in organization to the British SBS or U.S. Navy SEALs.

The Soviet Army has used a variety of camouflage uniforms since World War II but since the late 1960s has standardized on a single pattern of fabric. This is in a medium green with small angular splotches of pale khaki or white.

The most common form of camouflage dress is a simple coverall, the KLMK (Kamuflirovanyi Letnyi Maskirovochni Kombinezon).

This sort of cloth was initially issued on a very restricted basis and was intended mainly for snipers. It even came with an accompanying face mask of the same fabric of the coverall. In the 1980s, distribution of this camouflage suit has increased considerably, to the point where entire motor rifle units have been so fitted.

The Soviet KGB border guards have their own variation of this uniform,

using the same camouflage uniform but cut as a more conventional blouse and trousers combination.

In the early 1980s the Soviet ground forces began to receive a variation of camouflage suit made of a coarser textured material similar to burlap but printed with the similar pattern. This coarse fabric was probably introduced to provide the garment with improved concealment qualities against newer infrared sensors.

During WWII, Germany created a special material, the "Leiber Meister," which was to replace all other camouflage suits because it was made to avoid deception by infrared devices.

In 1985, the Soviet Army showed a new pattern of camouflage uniform with a brown background which resembles the M65 U.S. Army pattern but without greens. This camouflage was certainly issued for the Afghanistan landscape and is now widely dispatched in Soviet Army units, even inside the USSR.

It is worth noting that old and obsolete Soviet camouflage uniforms are still used by reserve troops. These can be seen during maneuvers. The old white and brown, spinach green and black, etc., are worn by certain secondary troops. These uniforms are not in the photos accompanying this arti-

cle and will not be seen in official reports and never in Soviet military magazines. The Soviet Army also sells many old camouflage suits, principally to three communist countries: North Korea, Albania and Romania. Presently, the Cuban Army also wears the 1980 Soviet Green pattern with white splotches.

Of course in winter, Soviet forces no longer wear the famous WWII white coverall with large black "fingers." They now wear a new white two-piece suit and hood with face mask.

In the generally brown landscape of Afghanistan many Spetsnaz soldiers have taken the appearance of regular Afghan Army soldiers. Here, Russian soldiers often leave off their uniforms the large shoulder boards, the famous "Fogon," to replace them with small bars (NCOs) or little stars (junior officers). The Mudjahidin snipers, who give priority to shooting Soviets, are less able to see a difference between Soviet and regular Afghan Army soldiers.

Additionally, Spetsnaz forces generally wear the uniforms of the military units in which they serve: black uniforms for Black Sea naval forces, paratrooper uniforms in Soviet airborne forces, etc. So it will be impossible to identify Spetsnaz troops in a given unit in which they are serving. ●

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Staff Report

FIRST aid kits are an essential part of every survivalist's equipment, but few such kits contain more than the minimum items for minor emergency care.

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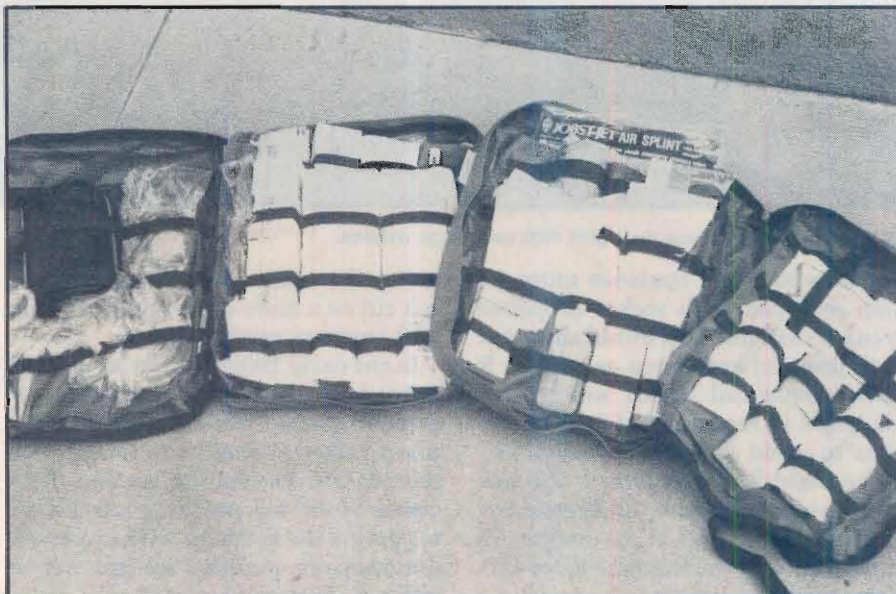
It provides the first responder with the equipment and supplies needed for immediate and comprehensive emergency care at an accident or other emergency scene. The kit has proven effective through extensive use by all phases of emergency medical services,

military and government agencies for more than five years.

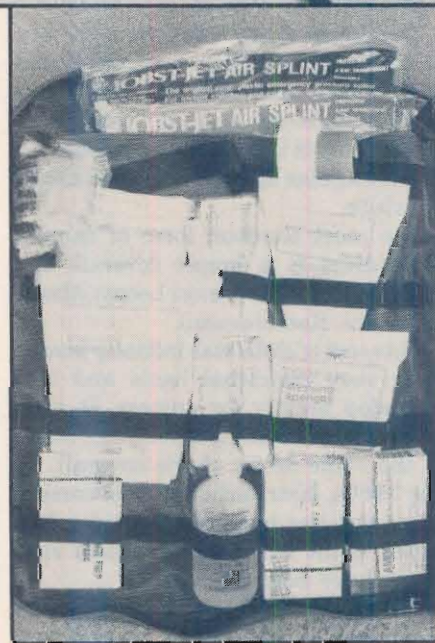
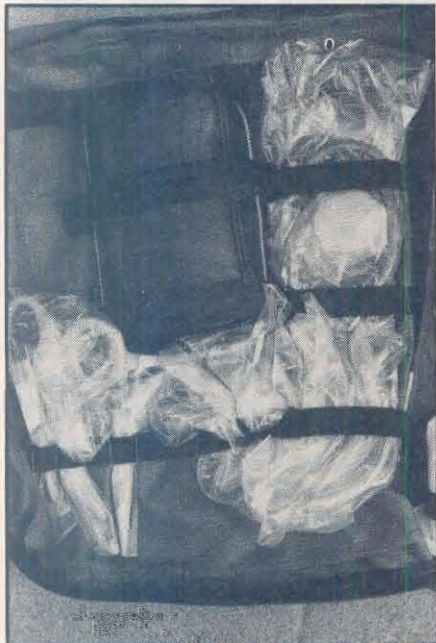
Each item in the kit has been selected for its quality and suitability in the emergency environment. The four main compartments have each been organized according to standard emer-

gency care priorities and there is still enough space remaining for individual medications, I.V. sets or other additions.

Included among the nearly 100 items in the kit are forceps, Cold Cycle dis-



The kit and its contents.

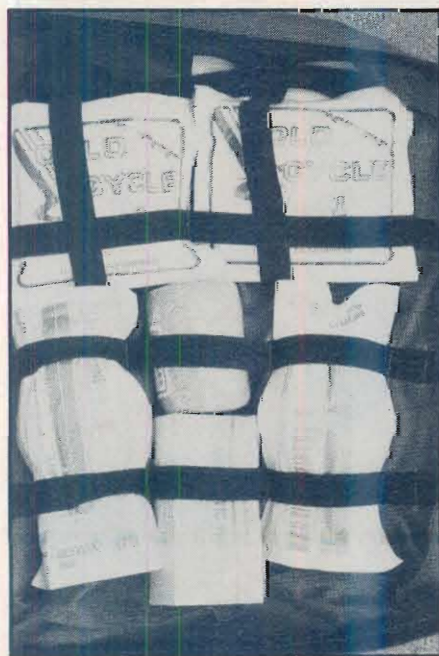




The Field PAC first aid kit has an extensive array of medical equipment for almost any type of emergency care and can be carried like a suitcase or like a pack.

posable compresses, disposable pen-light, buffered isotonic eye wash, sterile burn sheet (10 by 30 inches), air splints, different airways, numerous types of dressings, sponges, bandages and gauze, a rescue blanket, a sphygmomanometer and dual head stethoscope.

This is the same kit offered as the second prize in ASG's 1989 Giveaway No. 1 contest. It is available for \$325 from NITRO-PAK Storage Foods & Emergency Supplies, Dept. ASG, 11018 E. Rosecrans Ave., Suite 300, Norwalk, CA 90650; (213) 929-4705. ●



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—Atlanta Weekly, Jan 31, 1988

Contingency Lights

(Continued from page 25)

offered by Shomer-Tec is known as the Betalight. These are issued to NATO forces for map reading or small close-up work in the field. Their dim light is always on and will not affect night vision. Inside a phosphor coated borosilicate glass capsule, tritium gas reacts with the phosphor to produce light. They have a service life of over 10 years with no maintenance required. Documentation (two copies) is required by police or military personnel to buy the Illuminator (\$69.95) or the Personnel Marker (\$24.95) model. The Clear Line Marker (\$12.95) model is a fairly weak light that is available to the public.

For emergency signaling, a parachute flare can attract immediate attention. We tested a flare donated by Shomer-Tec and were impressed with the brightness and the altitude the flare attained. In a desert location where the possibility of fire was low, we waited for about 10 minutes after sunset and then pulled the ring on the \$39.95 flare. The rocket shot up 1,000 feet with little sound, then made a pop as the 100,000 candle power flare lit up the sky and the ground below with an intense pink, magnesium light. After thirty seconds it burned out. We weren't able to find the parachute remains because of the tremendous height the flare achieved when deployed. Friends camped two miles away said they saw the flare even though we didn't tell them when or where we would set it off.

A tiny flashlight can be a lifesaver in emergency situations. New lithium batteries are available that can be stored for 10 years before going bad. Tekna makes the Mono-lith (\$13) with adjustable focus beam and the tiny Splashlite (\$9.50). Both are submersible and can burn brightly for four hours using lithium batteries. Ideal for first-aid kits, survival kits, car glove boxes, the home and office.

Pelican Products, Inc., the maker of sturdy plastic cases for guns and camera equipment, has a new flashlight available called the Pelilite (\$14) which features a Space Age xenon high-intensity bulb. It is submersible to 2,000 feet and is certified safe around explosive environments. The xenon bulb has a very bright 18.5 foot-candle non-adjustable spot. The Pelilite and the Tekna flashlights are available from

Recreational Equipment, Inc.

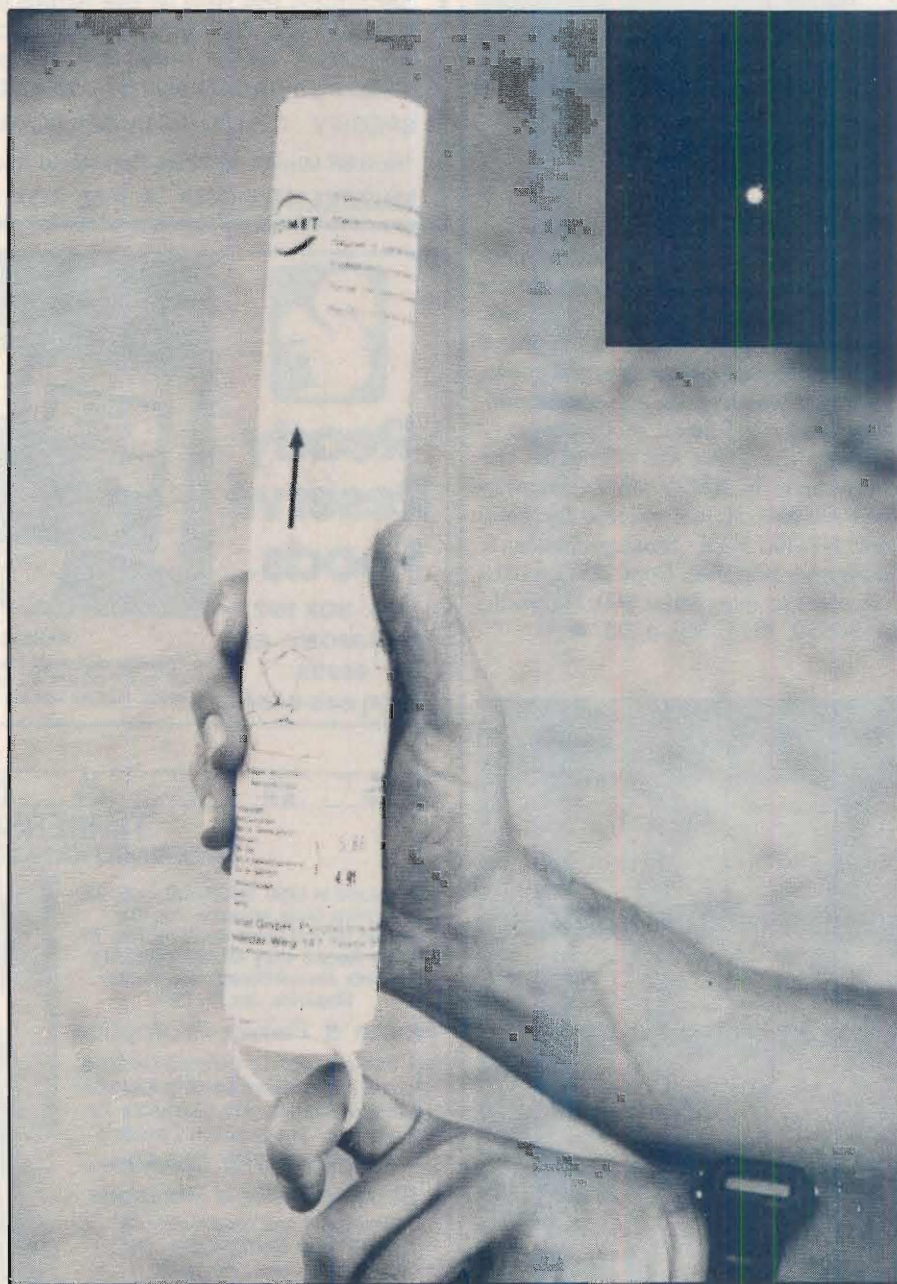
An old fashioned miner's carbide lamp is also a good survival light. With just a few chips of carbide and a little water you have a bright white flame that can illuminate a large area for over three hours. The solid brass construction with chrome reflector and flint starter is a classic. With 5 pounds of carbide fuel stored away you can have a guaranteed light source no matter what happens to the power grid. Available from NITRO-PAK Storage Foods and Emergency Supplies. ●

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Shomer-Tec, P.O. Box 2039, Dept. ASG, Bellingham, WA 98227; (206) 733-6214. Catalog is available for \$2.

Recreational Equipment Inc., P.O. Box 88125, Seattle, WA 98138-0125; (800) 426-4840.

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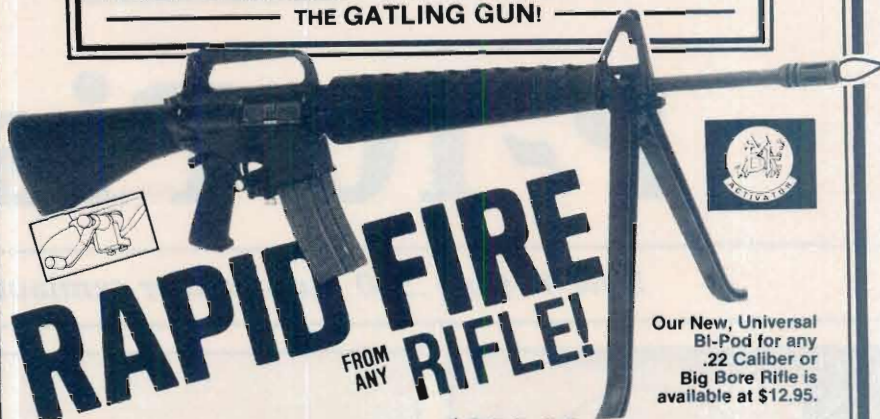
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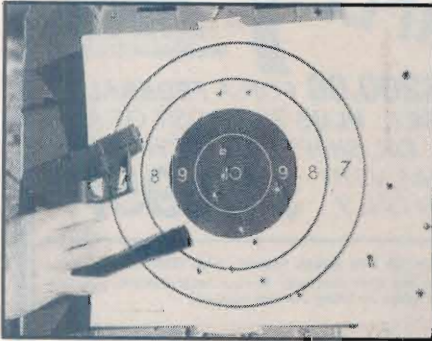
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Grendel, Inc.:

P-10 Pistol

New 11-shot .380 Auto caliber semiauto handgun...



After getting used to the 10-pound double action trigger pull, shooters achieved respectable accuracy with the P-10 firing from 7 yards.

Staff Evaluation

GRENDEL's new P-10 semiautomatic .380 pistol is intended for home protection — especially by individuals with only limited training in firearms — and as a backup weapon for law enforcement personnel.

The P-10 fires in the double action mode only, and like a double action revolver, it has no external safety. It uses an "inertia drop" safety system in which the trigger must be pulled all the way to the rear before the hammer will strike the firing pin to fire off a round. Also like a double action revolver, it uses no loose magazines but has a high capacity (10 rounds) magazine integrated in the grip. Rounds are loaded one at a time through the top of the breech by hand or by stripper clip with optional speed loader device. With 10 rounds in the magazine and one in the chamber, the P10 has a capacity of 11 shots.

The trigger pull is about 10 pounds, providing an additional safety feature.

The P-10 is small and light for concealability, measuring less than 5½ inches long and only about 4 inches high (about 4½ inches with optional grip extension). Weight empty is 15 ounces. All but 2 ounces of that weight is steel, and the P-10 is easily detectable by metal detectors. There are



Here the Grendel P-10 .380 auto pistol is shown with optional grip extension. Magazine capacity is 10 rounds.

five main components: barrel, slide, frame, grip and firing mechanism.

The 3-inch barrel is turned and milled from SAE 4140 ordnance steel with a tensile strength of more than 140,000 pounds per square inch. The slide is milled from solid stock La Salle Stressproof steel and contains the firing pin and extractor. The frame is of all steel construction and holds the barrel, firing mechanism and forms the magazine lips, slide rails and ejector. The grip is made of a special hardened rubber material that is extremely strong.

The trigger with a lever connects via a bar/disconnector to the hammer, which is driven by a powerspring to strike the firing pin and ignite the cartridge primer on firing. Finish,



Using the P-10 with optional target illumination system attached to the grip. The little finger activates a Mini Mag-Lite attached to the base of the grip.

except for barrel, is matte black.

Besides the speed loader tool, optional equipment includes a small grip extension which gives the shooter more room on the grip, making the pistol easier to hold, especially for big-handed people. The bottom of the grip is designed to accept Grendel's optional "MMH" target illumination system using a Mini Mag-Lite. The light is activated by the pinky finger and is used in low light situations for illuminating targets. There is also an optional threaded barrel and muzzle brake.

The pistol comes with a carrying case and other types of cases can be purchased as optional equipment. Suggested retail for the P-10 is \$150. Grip extension retail is \$6, target illumination system is \$20, speed loader and five strippers is \$12.

In field testing the P-10, we did not have the speed loader and loaded the pistol by hand. With practice, the gun can be loaded fairly rapidly but a speed loader would obviously make the job much easier and faster. The target illumination system is easy to install or remove. We found it somewhat cumbersome to have on the gun but it does allow targets to be located in darkness using only the gun hand.

We used Federal American Eagle 95-grain full metal jacketed ammunition while test firing the gun. Our experience has been that .380 caliber handguns are generally not very accurate at distances beyond a few yards, especially with FMJ ammunition. But the P-10 performed well with this ammo and, after getting used to the long, firm double action trigger pull, we achieved respectable accuracy on our targets placed 7 yards away. All firing was done from a standing position without a rest, using two-hand and single-hand holds.

We did experience a few jams with the P-10 in the better part of two boxes of the Federal ammunition fired through it, but these were quickly cleared. We attributed the jams to improper seating of the rounds in the magazine. We were loading them quickly by hand and were failing to make sure each round was firmly resting against the rear wall of the magazine. When this procedure was corrected, we stopped experiencing jams.

On the whole, we think this is a very nice little pocket pistol: concealable, light, sturdy, reliable and safe. Although some authorities consider the .380 auto cartridge a pip-squeak caliber, it can still be an effective round



After the last round is fired the P-10 automatically locks open for reloading. The slide can be manually locked open by using the slide stop.

The P-10 and its padded carrying case.

for self defense. For more information about the P-10 contact Grendel, Inc., Dept. ASG, P. O. Box 908, Rockledge, FL 32955; (407) 636-1211. ●

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Rock Medicine

(Continued from page 49)

It permits the injury to be moved without more damage to the underlying tissues.

To make an ointment, mix the powder with an equal amount of purified lard or vegetable oil in a glass or ceramic container. Heat the mass over a low flame, and stir with a wooden splint to evenly distribute the ingredients. After 20-30 minutes, set aside to cool before applying the ointment. Another way is to mix the powder with dry clay dust until uniform, and stir in hot vegetable oil to form a plaster.

How They Work — Rarely in nature are rocks and minerals collected in a chemically pure state, but even with impurities their value as a medicine must not be underestimated. How they work is best explained by investigating their elementary compositions and by studying their effects upon infections.

Minerals are the constituents of rocks. It takes an aggregation of two or more to make a single rock. They are basically composed of atoms, molecules and solidified gases attracted and bonded together by weak electrical charges or electrons. Each mineral type is packed densely into a liquid or semi-solid solution and has distinctive characteristics relative to its environment during formation.

All mineralization occurs deep within the earth in the magma zone. Just below the earth's crust, intense heat and immense pressure molds the liquid minerals into their final shape and coupled with infinite time, into their solid chemical forms. As magma cools, the minerals begin to crystallize at different temperature ranges. Some attain forms as granular masses, crusts, crystals or as fine grains. Others will occur as veins or as gigantic rivers in massive blocks of rocks.

When reduced to a powder, the individual particles of rock or mineral are tiny storehouses of potential energy lying in a dormant state. Applied as medicine, they react with water or wound secretions to create heat and complex chemical reactions. New compounds are released upon the infected wound or injury site. In turn, these compounds alter the ideal environment in which infectious invader-germs thrive and multiply, to cause a great decline in their populations. The injured person's hard pressed immunity system enjoys the respite and soon re-

bounds to take control of the infection.

Research has shown many rocks and mineral powders to be antiseptic, antibacterial, disinfectant and effective in stimulating cellular regeneration essential to the healing of injured, diseased or damaged tissues. Applied to infected wounds and injuries, they become a primitive sulfa drug, cheap and easy to make. Recovery time is reduced and many lives can be saved with their use.

Rock medicine can be made in the field without elaborate equipment and extends the survivalist's ability to treat all kinds of injury. In an emergency, a knowledge of rock medicine could very well mean the difference between life and death.

ANTIBACTERIALS (for surface wounds, infections, cuts, sores)

1. *Hematite* (Iron oxide), mineral in sedimentary and metamorphic rocks. Tubular crystals, fibrous masses, ocherous or oolitic. Commonly mixed in sands and clays. Red to yellow or black color. Streak same. Metallic taste. Opaque luster. Powder hydrochloric acid soluble. Brittle. Hardness 5-6.

2. *Pyrite* (Iron sulfide), mineral in all kinds of rocks, fossils, and in veins. Cubic to granular radiating masses. Pale brass to brown color. Streak brownish black. Metallic taste. Metallic luster. Powder nitric and acid soluble. Brittle. Sparks easily. Hardness 6-6.5.

3. *Malachite* (Copper carbonate), mineral in oxidized copper veins or with copper-bearing minerals. Slender needle crystals to massive crusts. Green to pale blue color. Streak blue. Metallic taste. Shiny to dull luster. Powder acid soluble. Hardness 3.5-4.

4. *Cerussite* (Lead carbonate), mineral in veins of lead deposits. Aggregate crusts to hexagonal-twinning crystals. White to yellow color. Streak white. Bitter metallic taste. Glassy luster. Powder acid soluble. Hardness 3.5-4.

5. *Smithsonite* (Zinc carbonate), mineral in crusts, veins, and in extensive beds of lead-zinc deposits. Bubbly crystalline masses. White to gray or greenish brown to blue color. Streak gray. No taste. Dull to waxy luster. Powder acid soluble. Hardness 5.5.

ANTISEPTIC/DISINFECTANTS (for surface wounds, swellings, sores)

1. *Halite* (Sodium chloride), salt in sedimentary rocks and domes. Cubic crystals to crystalline masses. White

to gray or blue color. Streak white. Salty taste. Watery luster. Powder water soluble. Brittle. Hardness 2. Sorethroat gargle.

2. *Sylvite* (Potassium chloride), salt in halite deposits. Cubic crystals to granular masses. White to bluish gray or red to yellow color. Streak white. Bitter taste. Waxy luster. Powder water soluble. Brittle. Hardness 2. Eczema.

3. *Niter* (Potassium nitrate), chalky deposits in limestone caves, bat or bird guano, and as surface layer of dry lakes. Needle crystals to massive crusts. White to gray color. Streak gray. Bitter taste. Watery luster. Powder water soluble. Brittle. Hardness 2.

ANTI-IRRITANTS (skin infections, painful skin rash, swellings)

1. *Sulfur*, a nonmetal mineral in volcanoes and with salt domes. Crystalline to granular masses or as crust. Yellow to brown or gray color. Streak brown. Burnt match smell. Dull to resinous luster. Powder acid soluble. Brittle. Hardness 1.5-2.5.

2. *Zincite* (Zinc oxide), mineral with calcite in zinc deposits. Pyramidal crystals to granular masses. Yellow to orange color. Streak same. Bitter taste. Glassy luster. Hardness 4.

3. *Epsomite* (Hydrous magnesium sulfate), as ooze on walls of caves and mines, in salt lake deposits, and mineral springs. Split crystals, granular crusts or fibrous masses. White to gray color. Streak white. Soapy taste. Watery to waxy luster. Powder water soluble. Hardness 2. Mild laxative.

4. *Kalinite* (Potassium sulfate), a natural alum in volcanic deposits and in hot spring areas. Cubic crystals to aggregate crusts. White to gray color. Streak gray. Bitter astringent taste. Waxy to glassy luster. Powder water soluble. Hardness 2.5-3. Bleeding wounds. Foot powder.

ANACIDS (stomach upsets, peptic ulcers, gastrointestinal ills)

1. *Calcite* (Calcium carbonate), mineral in limestone, chalk, fossils, marble, and in caves. Crystals to granular masses. White to gray or various tints. Streak white to gray. Eland taste. Waxy luster. Powder bubbles in hydrochloric acid. Hardness 3. Sores, swellings, insect bites. Antidiarrheal. Talc substitute. Dietary supplement.

2. *Dolomite* (Calcium magnesium carbonate), mineral in sedimentary and metamorphic rocks. Crystalline masses. Red to white or black color. Streak

white to gray. No taste. Glassy to pearly luster. Powder hydrochloric acid soluble. Hardness 3-3.5.

3. *Magnesite* (Magnesium carbonate) with dolomite in veins of sedimentary and metamorphic rocks. Fine grain to massive crystalline form. White to brownish yellow color. Streak gray. No taste. Dull to glassy luster. Powder bubbles in hot hydrochloric acid. Hardness 3.5-4.

ANTIDIARRHEALS (for control of diarrhea and dysentery)

1. *Talc* (Hydrous magnesium silicate), in metamorphic rocks of silicate based dolomite terrain. Tabular crystals to foliated compact masses. Splits easily. White to green or blue to brown color. No streak. Tasteless. Feels greasy. Waxy luster. Acid resistant. Crumbly. Hardness 1. Foot powder. Lubricant.

2. *Fuller's Earth*, an impure talc in clay-like deposits. White to gray color. Wounds and blisters. Soap.

3. *Kaolinite* (Hydrous aluminum silicate) in beds of pure clay, weathered feldspar deposits, and near hot springs. Small tabular crystals to clay masses. White to red color. Streak white. Dry clay taste. Opaque luster. Feels greasy. Powder water absorbent. Hardness 2-2.5. Sores, blisters. Anacid. ●

SOME SUGGESTED READINGS

Manual of Mineralogy

Dana, James Dwight
18th edition, revised
John Wiley, New York, 1971

A Textbook of Mineralogy

Dana, Edward Salisbury
4th edition, revised
John Wiley, New York, 1932

The Rock Book

Fenton, Carroll Lane
Doubleday & Company, Inc.
New York, 1956

Rocks and Their Stories

Fenton, Carroll Lane
Doubleday & Company, Inc.
New York, 1961

Rocks and Minerals

Sorrell, Charles A.
Golden Press, 1973
Western Publishing Company, Inc.
Racine, Wisconsin

Rocks and Minerals: A Guide to Familiar Minerals, Gems, Ores, and Rocks

Zim, Herbert S.; Shaffer, Paul A.
Golden Press, 1957
Western Publishing Company, Inc.
Racine, Wisconsin

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SURVIVALIST DIRECTORY

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ASG 0300

Strasburg, Virginia. We are a husband and wife team of survivalists, both ordained ministers. We would like to meet other survivalists in this area. Not afraid of strong opinions — the survivalist movement is big enough for all of us! We are, however, wary of pseudos who use the movement for their own selfish ends. We welcome sincere survivalists, no matter what philosophy.

ASG 0301

Sioux City, Iowa. Low-profile survivalist, ex-private detective, ex-security officer, interested in electronics, wishes to exchange ideas and information. Sorry... NO radicals, extremists, nazis, communists, humanists, Rambo types, liberals, gays, juveniles, religious wackos, racists, drug addicts, alcoholics or other assorted nut-cases! Confidentiality and discretion is both assured and expected. Females and families welcome. SASE please.

ASG 0302

St. Augustine, Florida. Group looking for other groups and individuals to train with. Considering new members for this group this fall. Must have transportation to and from St. Augustine. Must be financially secure to buy standard weapon and equipment. Send background information and thoughts on survival. America is #1. "Those who long for peace must prepare for war."

ASG 0303

Tyler, Texas. Family oriented survivalist seeks correspondence with others of the same caliber. Have twelve years military and survivalist training. Am not interested in radical or racist beliefs. I am 100 percent patriotic towards this country. I also have communications with other survivalists in this state. We would like to find a good group to join or find others that would like to form a good unit.

ASG 0304

United States. 19 year-old wishes to correspond with others of same or lesser age, male or female. Possibility of Christian-paramilitary self-reliant organization forming. Fellow teens from all states encouraged and welcomed to write. Please include area of specialization if any. Training by teens and for teens if interested. All letters answered. Absolutely no gays, racists, extremists, etc.

ASG 0305

Damascus, Maryland. Family of three, determined to survive, wish to make contact with persons of like mind. We are planning to relocate and would like to correspond with all areas of North America. We are experienced in survival skills.

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Those who wish to be added to the directory listing, please send names and addresses to *American Survival Guide*, 2145 West La Palma Avenue, Anaheim, CA 92801. The listing is free. ●

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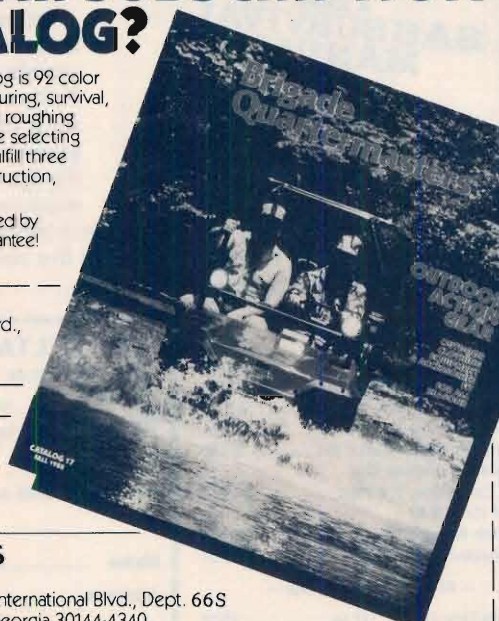
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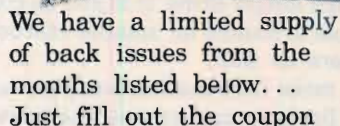


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NDM-86 Dragunov, 84S AK-47 Rifles

(Continued from page 38)

The rifle comes with green web sling, bayonet and sheath, three 30-round magazines and cleaning kit stored in the butt stock (a small disc in the butt is pushed to pop out the cleaning kit) with a suggested price of \$389.

We test fired the Type 84S with more than 100 rounds of Norinco's 55-grain full metal jacketed, non-corrosive .223 ammunition and found that it worked excellently.

We experienced no jams or other malfunctions and the sights, factory zeroed, needed no adjustment. We were blowing up bottles and knocking over beer and soda cans set up 100 yards away while firing the rifle from the shoulder without a rest.

We found the 84S fires loudly. In fact, we thought we were firing a .308 rifle at first and double checked our ammunition to make sure it was actu-

ally .223 caliber. This had no effect on function or accuracy, however, and recoil is typically moderate for the .223 caliber of weapon. In rapid fire or slow aimed fire this is one fine rifle!

The Type 84S is a well made, accurate and reliable weapon and is easier to handle and sight with for those people with longer arms. It is just as comfortable to handle for smaller statured shooters as well.

For more information on these and other firearms and ammunition available from Norinco, see your gun dealer or contact China Sports, Inc., Dept. ASG, P. O. Box 2566, Santa Fe Springs, CA 90670; (213) 942-2383. ●



The Type 84S .223 AK-47 rifle has a butt stock that is 1½-inches longer than the standard AK butt stock.



The 84S flash suppressor.



Cleaning gear is stored in the butt of the Type 84S.

Servicemaster .45

(Continued from page 9)

New Detonics introduces design improvements — mostly external, cosmetic changes — to the Servicemaster later this year. Among the changes will be Bo-Mar sights on the slides, new "black stainless steel" and nickel-teflon finishes for the pistols, and slide serrations on the front and back of the slide at the same angle as the grip.

The Servicemaster we received for an evaluation was one of the last 575 of the original design Servicemasters — all stainless steel with polished slide and satin stainless finish on the other parts, checkered walnut grips, match trigger with "tuned" pull, Pachmayr-coated mainspring housing (which cushions recoil), "beavertail" grip safety tang and adjustable Millett sights.

These guns are expensive compared with other .45 ACP auto pistols, but then you are paying for design improvements and the quality construction that the Detonics pistols are well known for. Each pistol is hand assembled and fitted by factory gunsmiths who are identified on a tag that comes with each gun.

We test fired the Servicemaster at a local public shooting area, firing without a rest from a standing position at paper targets 7 yards distant.

Ammunition used was PMC 185-grain jacketed hollow points and PMC 230-grain military ball.

The Servicemaster is a pleasure to shoot, comfortable, with relatively light felt recoil and quick sighting with the Millett sights (rear square notch adjustable for windage and elevation, front ramp). It's a smooth functioning, compact yet powerful package of firepower.

I at first shot low with the Servicemaster but after a sight adjustment I was able to consistently make hits inside the 8, 10 and X rings.

Except for one peculiar malfunction that occurred three times, the performance of the Servicemaster was splendid. The malfunction, which occurred twice with rapid fire and once with slow aimed fire and always involved the 230-grain military full metal jacketed ammunition, was a failure of the last round in the magazine to seat in the chamber properly. The slide remained partly open and there was a nick on the back of the cartridge. The primer was unmarked. A New Detonics spokesman suggested this problem has to do with the stainless steel

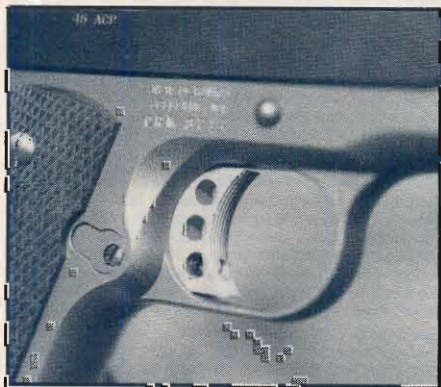
magazine's follower not working properly. In any event, it is a minor malfunction which can be easily cleared up.

As I stated earlier, the New Detonics Servicemaster is an expensive pistol, but if you want the design characteristics listed above and the highest quality available in a production service .45 auto pistol, this is your gun.

The New Detonics Servicemaster is available through your gun dealer. Remember, at this writing there are only 575 of these pistols left. More information is available from New Detonics. ●



The Servicemaster has a Pachmayr-coated mainspring housing for cushioned recoil.

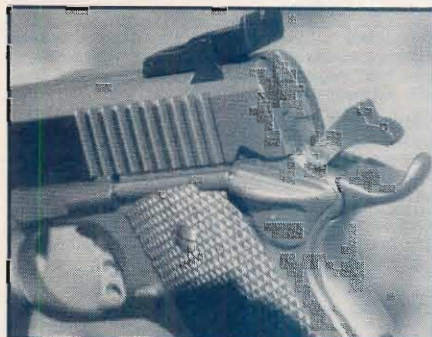


The match "tuned" trigger has a pull of 4 to 4½ pounds. Other custom features include beveled magazine well, throated barrel, polished feed ramp.

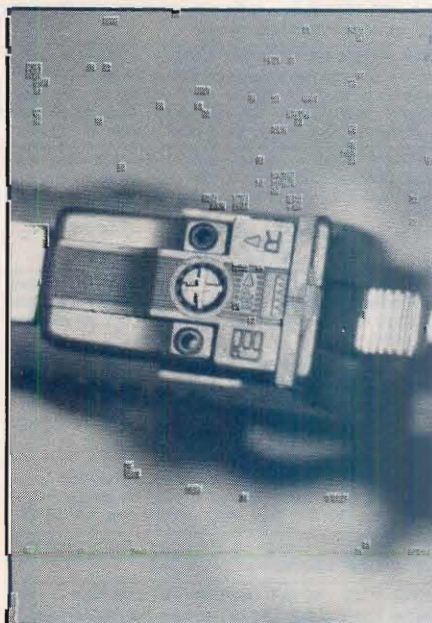


New Detonics Servicemaster: Tech Specs

Caliber	.45 ACP
Material	stainless steel
Length	7 7/8 inches
Height	5 1/4 inches
Weight, empty	32 ounces
Barrel length	4 1/4 inches
Sights	adjustable Millett
Capacity	7 rounds + 1 chambered
Finish	highly polished side of slide with matte satin surfaces
Price, suggested retail	\$975
Manufacturer	New Detonics Manufacturing Corp., Dept. ASG, 21438 N. 7th Ave., Suite B, Phoenix, AZ 85027; (602) 581-2648



The shortened hammer and "beavertail" grip safety tang of the Servicemaster.



Sights are Millett. Front sight is a ramp, rear is square notch adjustable for windage, elevation.

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MAIL CALL.

Spenco 2nd Skin

Some readers have asked us where they can purchase Spenco 2nd Skin dressing which acts to remove friction on blisters so hikers can continue hiking without the disabling pain and tissue damage associated with severe blisters. Spenco 2nd Skin was mentioned by Associate Editor Scott Stoddard in his article "Wilderness "Medicine" in the September 1988 issue of ASG. This product can be purchased by mail from Recreational Equipment, Inc. (R.E.I.), P.O. Box 88125, Seattle WA 98138-0125; (800) 426-4840. You may also contact Spenco directly at 1-800-433-3334 in Waco, Texas, for information on where you might purchase Spenco 2nd Skin in your area.

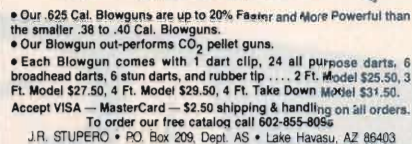
— The editors.

Michael Pietrantonni's article "Emergency Medical Technician" (October 1988) is an excellent synopsis of the role and duties of the EMT. However, his advice on whom to call for more information is too concise. For more information about EMT training, one might try to contact one or more of the following: National Assn. of EMTs, P.O.B. 627, Boulder, MT 59632 (406-225-4222); National Assn. of State EMS Directors, c/o Larry Jordan, 1317 Wine-wood Blvd., Tallahassee, FL 32399 (904-487-1615); National Council of State EMS training coordinators, P.O.B. 3824, Pojuaque, NM 97504 (505-827-2523); National Emergency Medicine Association, 11 W. Pennsylvania Ave., Towson, MD 21204 (301-494-0300); National Registry of EMTs, P.O.B. 29233, Columbus, OH 43229 (614-888-4484). The NREMT publishes a book-let entitled, "EMT-Paramedic Training Sites in the USA & Territories."

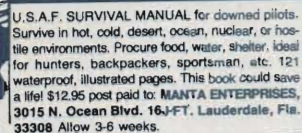
Thanks for the additional sources of information. Also, we wish to apologize to the EMT article author, Michael Pietrantonio, for inadvertently dropping the “EMT” after his name in his byline for that article.

How long would it take for safe drinking water to become available after a nuclear attack? Still ponds and lakes and fast moving springs and brooks, are these good sources for water after a nuclear attack? Safety from

We don't have the information you request, but we are aware of a controversy over the irradiation method of preserving foods. Some nutrition authorities contend this method is harmful to the nutritional content of foods and unhealthy for the consumers of those foods. We'll look into the matter and pass along anything we learn. 🍓



**Ed Mann
Dept. ASG
P.O. Box 5118
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Mail this coupon to:
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PRIZE NO. 1

TZ-75 Series 88 9mm Parabellum (NATO) semi-automatic pistol from F.I.E. Corp., Dept. ASG, P.O. Box 4866, Hialeah, FL 33014; (305) 685-5966. The TZ-75 Series 88 is a redesigned, upgraded version of F.I.E.'s popular TZ-75 9mm auto pistol which itself is a variant of the famous Czech CZ-75 pistol. With a slightly different shape and heavier with stronger steel than used in the original TZ-75, the Series 88 pistol has a frame mounted sear locking safety permitting the gun to be carried "cocked and locked" with a round in the chamber. There is also a Colt style automatic firing pin locking safety in the Series 88. Its barrel swells at the muzzle, improving lock-up and overall function and facilitating threading to accommodate a muzzle compensator. Grips on this gun are rich walnut but also available are rosewood, ebony micarta, black checkered rubber, checkered, smooth or scrimshawed ivory polymer. The Giveaway gun finish is satin blue. Other finishes available are matte chrome and combination chrome frame and blue slide. The Series 88 is made by Armi Fratelli Tanfoglio SPA of Italy for F.I.E. Retail value about \$450.



PRIZE NO. 2

The R.S.I. Field PAC Kit emergency first aid kit from NITRO-PAK Storage Foods & Emergency Supplies, Dept. ASG, 11018 E. Rosecrans Ave., Suite 300, Norwalk, CA 90650; (213) 929-4705. This compact kit provides the paramedic, E.M.T. or first responder with the equipment and supplies that are immediately needed for comprehensive emergency care at any scene. The kit has been proven through its extensive use by all phases of Emergency Medical Services, military and government agencies for more than five years. Each item in the kit has been selected for its exceptional quality and suitability in the emergency environment. The four main compartments have each been organized according to standard emergency care priorities and there is enough space remaining for individual preference or local protocols to include medications, I.V. sets or other additions. The kit is housed in a detachable backpack system in bright orange which can be carried like a suitcase or worn like a pack. Retail value: \$325.



PRIZE NO. 3

The Tigershark bowie knife from SOG Specialties, Dept. ASG, P.O. Box 1006, Santa Monica, CA 90406; (213) 451-4292. Ground from a select high carbon stainless steel custom smelted and rolled for SOG Specialties, the 9-inch long, .250-inch thick blade of the Tigershark combines handsome grind lines and custom quality rolled edge with faceted reinforced tip. Heat treated to a Rockwell hardness of 55-57, the blade is easily honed regardless of environment. The handle is molded Kraton and completely surrounds the tang. It has ribbed finger grooves and checkering to ensure a firm grip and includes a lanyard hole. The knife comes with the elegant, very strong black leather sheath shown and carries SOG Specialties' lifetime guarantee of satisfaction. Value is \$140.



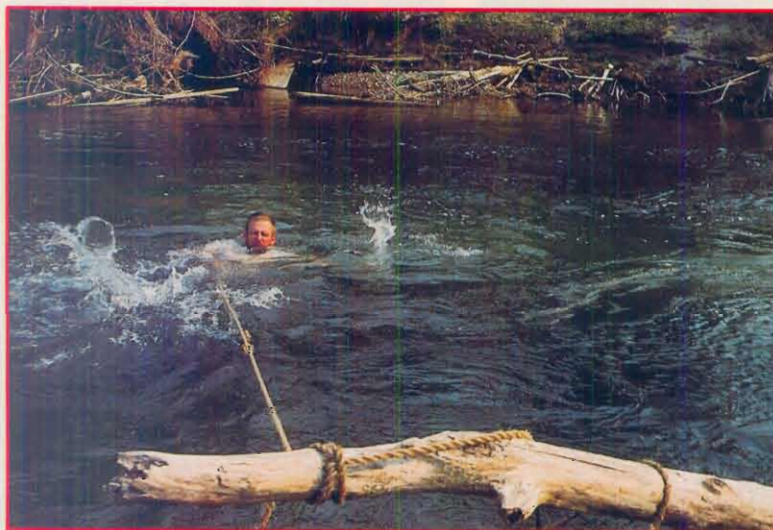
The Wilderness Ford

Streams, Rivers:

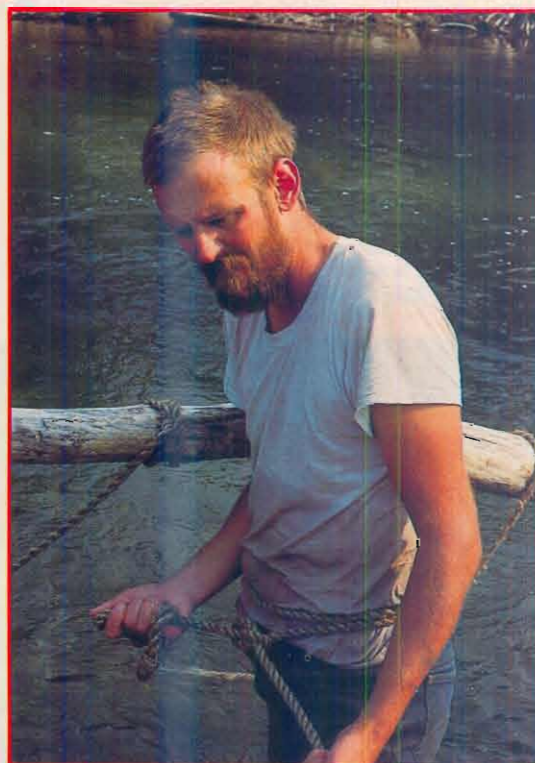
Fording is wet, sometimes dangerous and hard labor; however, it certainly adds to a wilderness outing's adventure. . .



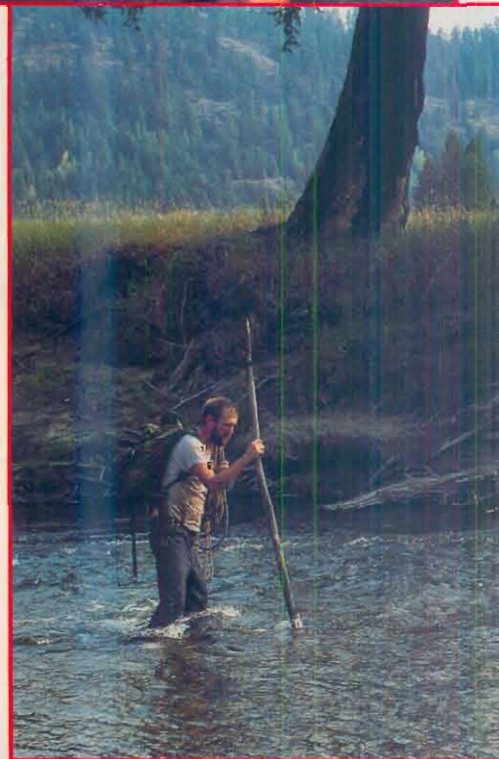
The simple clove hitch is among the most efficient knots in a wet environment.



A secure safety line is one way to insure a successful fording in deep or swift water.



Utilize only the bowline when tying a safety line about your body.



Never underestimate the power of moving water. Note how the staff cuts the current effectively.

FLOODED streams and rivers present a formidable barrier to wilderness travel, and except for desert country there is the likelihood that hikers will be confronted with fording.

The water barrier could be an easily crossed mountain rivulet or a torrential river. Only foolish people attempt fording without proper forethought; however, broken bones and drownings occur yearly to hikers, fishermen, and boating enthusiasts who misjudge the power of moving water.

The twin ford at converging Granite and Canyon Creeks, their green currents swollen with glacial run-off, formidably bar my access to the North Cascade Highway. Six days of climbing

around Crater Mountain have left me 30 pounds lighter and considerably weakened. My exhausted condition doesn't help clear thinking as I stare into the swiftly moving depths. It's either trek several miles down stream to Ruby Creek Bridge or attempt this dubious ford.

I haven't any rope so my walking staff will have to do. Leaving the waist strap loose and shouldering my heavy pack, I step into the icy cold rushing water. The boulder-strewn bottom is slippery, and the increasingly strong current rises to thigh depth. It becomes difficult to move forward despite my staff; suddenly, an especially strong surge knocks me over. I barely get a chance to surface for breath as the gripping torrent, and my now waterlogged pack, drags me under and down stream over the rough bottom. I'm totally in

the tributary's power, but I somehow manage to control rising panic and kick my way to the opposite bank. Although the same experience awaits me in the other ford, I make it to safety unhurt.

This chastening experience could have been avoided by finding one of several logs that span these creeks up stream; however, I was subject to extreme fatigue, the woodsman's worst foe. This was my first real fording experience; with the proper knowledge I could have avoided what might have been my own drowning. Fortunately forest service bridges now span the Granite-Canyon Creeks ford.

Never commit yourself to a major crossing without considering possible consequences and alternatives first. Always check the water temperature to see if it is too cold. Cold water can quickly cause cramps, temporary partial paralysis, and hypothermia. If the proposed ford site is cold, rough, and very deep, it's better to try finding another means of crossing.

Try felling smaller trees across narrow streams; perhaps there are deadfalls or log jams which form a natural bridge. Be careful if it's been raining, or if the logs' surface is wet from early morning dew and frost conditions. Mossy surfaces get very slick and a person could take a nasty fall.

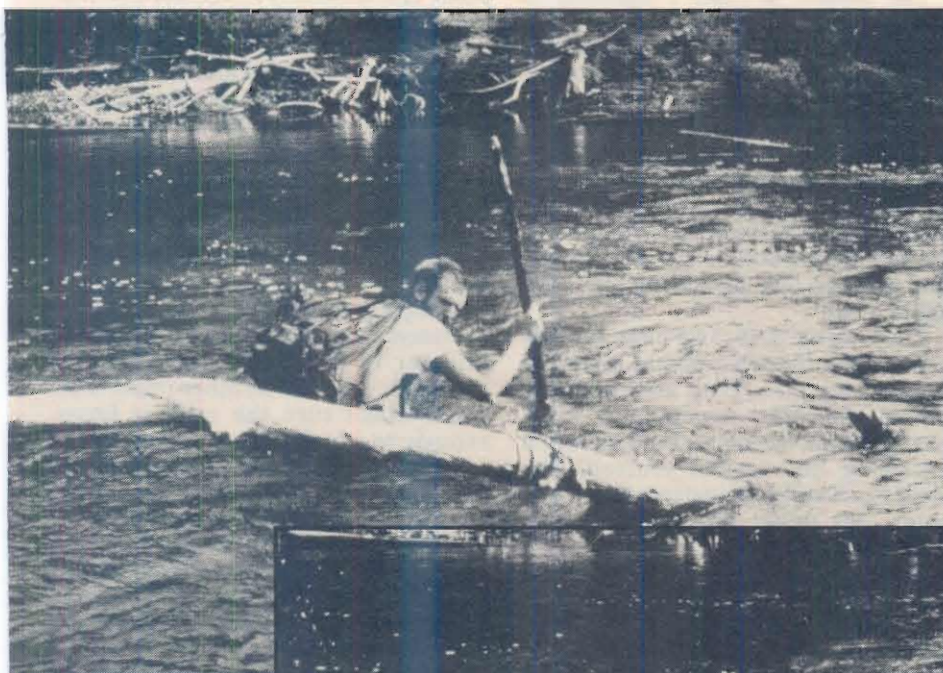
If it's determined that fording is necessary, find a spot where the stream course and opposite bank can be clearly observed. The ideal ford site is a level stretch where the channel is both shallow and broken into smaller rivulets. Sheer rock walls and heavily timbered canyons indicate rapids and deep channels. Locate a spot where the opposite bank facilitates easy access to safe travel conditions.

Wading, swimming, and rafting furnish the primary means to tackle even the worst water obstacles. If the creek is relatively shallow and not flooded, simple wading with a walking staff for support will suffice. Sharp rocks, wood stubs, and human litter can cause severe cuts, so remove socks to keep them dry and wear boots during the crossing.

Use the staff on the up-stream side for stability, to feel pot holes, and help cut the current. Try to cross at an angle up stream. Never ford with a buckled pack waist strap; it's very difficult to shed a waterlogged burden once you fall, and this mistake has caused a lot of drownings.

Deep pools, rapids, waterfalls, and rocky places are all bad sites to ford, so try to locate spots below them. Cross where there is an easily reachable sand bar or shallow bank if a fall occurs. Keep away from rock outcrops and log jams, because it is easy to get hurt or sucked under if you're swept into them.

Before this article continues let me



The walking staff will aid stability and help detect potholes.



Swimming the side or back stroke will help conserve energy in swift water.

AD INDEX

Assault Systems	3
B-Square	67
B.M.F. Activators	61
Benchmade Knife Company	63
Blowgun World, Inc.	77
Brigade Quartermasters	66
Butokukai	35
China Diesel Imports	C/4
Creative Convenience Market	43
Cutlery Shoppe	C/2
Delta Insignia	29
Delta Press	65
Dutchman, The	11
Dynamit Nobel of America, Inc.	12
Ed Mann	71
Ed's Army/Navy Surplus Store	71
Feather Enterprises	52
Foothills Fastprint Photo ID	77
Great Lakes Distributing	13
Ground Zero	39-42, 47
Guardian Personal Security	7
Gun Machine	22
Gun Parts Corporation	67
Harvest Valley Foods	22
J.R. Stupero	71
LRRP Security Services, Inc.	59
Manta Enterprises	71
Midwest Sport Distributors, Inc.	45, 52, 65
Misty Mountain Products	77
Muzzlelite Corp.	59
Nitro-Pak Storage Foods	10
Nuclear Research	77
Orpheus Industries	67
Paladin Press	5
Personal Electronic Protection	71
Phoenix Systems, Inc.	45
Provisions Unlimited	38
Quartermaster Military Equipment	43
R.P. Knives	77
Ram Line, Inc.	20, 21
Ready Reserve Foods	59
Seaboard Financial Service	77
Shomer - Tec	77
Sierra Supply	61
Smoky Mountain Knife Works	77
Split Second Security, Inc.	77
Steve Arnold's Gun Room	53
Stuntmasters	77
Survival Book/Larder Book	61
Survival Center, The	67
Survival, Inc.	C/3
T.R. Goodwin	66
Territorial Armory	13
U.S. Cavalry	77
Zap	71

The Wilderness Ford

state this: Moving water can possess titanic strength that dwarfs that of man. Flood conditions produce muddy water, concealing plunging deadheads, snagging root wads, and unstable boulders that can be clearly heard rumbling along the channel bottom. Whirlpools usually occur in canyonous areas and can easily suck a swimmer or rafter under. I had friends who drowned while attempting a raft expedition down Oregon's wild Illinois River gorge during winter flooding. Without experience, rope, or natural bridges, consider turning back!

The subject of rope, a lightweight 100-foot line, of several times a person's weight test, is an indispensable wilderness tool. Simple raft construction and shore-to-shore safety lines render it possible to tackle major water obstacles. Also, backpack contents compose precious gear which a person can ill afford to lose to a raging stream; waterproof the contents with plastic garbage sacks! Don't attempt a flooded ford without first anchoring to a solid shore hold.

The bowline and clove hitch provide two simple though reliable knots for tying safety lines. Both are extremely secure and easily manipulated when wet; however, use only a bowline when attaching line around yourself. The clove hitch will not slip from its anchor point, but under pressure the knot does constrict.

If a proposed ford site is narrow a weighted line can be tossed and snagged around solid objects on the opposite shore. Coil the line in a spiral manner so it uncoils smoothly as the weight is hurled. Attach a bowline about your waist and use the walking staff while crossing, if you fall, pull yourself across.

Safety lines are especially helpful if several people with heavy packs are involved. One member sheds his load, and ideally his clothes, then crosses swimming if necessary to secure the line on the opposite shore. The team now begins ferrying their loads across with confidence that they have a good handhold even if they lose their footing. The last man to ford unties the anchor point, ties in, and is pulled over by his companions.

If a person can't swim and fording is absolutely necessary, pants can be inflated to help buoyancy. Tie the pant leg bottoms, close the fly and whip the waistband hard over the head into the water. Enough air is trapped to help keep the body afloat.

Employ the back, side, or breast stroke when swimming in strong currents because they are less tiring than other styles. Paddle with the current toward the opposite shore; however, don't swim head first where a head injury could happen against a solid object. Go down stream on the back, feet first, in shallow rapids and stay away from converging currents that could suck a swimmer under.

Any variety of floatable items can be utilized for buoyancy in slower currents, but lashing together a raft often provides the safest means to negotiate large waterways, particularly if several people are involved. This ancient method of transportation is great once the raft is constructed, and frequently offers a viable alternative to walking on shore. It is very time consuming work locating the necessary buoyant poles, and then trimming and lashing them into a float.

Any wood that floats will do, but I've always preferred pine and spruce logs because of the lighter weight and considerable floatation. Make sure that all the poles float before lashing them together. Raft building is relatively simple with a knife, axe, and some rope. I prefer the pressure bar raft because the device is simply held together by rope which lashes cross members tightly to notched main timbers.

Always begin construction either on skids or in the water; log rafts are extremely heavy! One other important point: Make sure the craft is large enough to handle the planned load.

Before launching, climb to a vantage point and study the river ahead for hazards and favorable currents. Maybe the back eddies in a wide bend can help pull the raft to the opposite shore. Knowing what lies ahead will be just as important as competent pole work once the raft is launched.

A tightly constructed float can handle some pretty rough water, but keep an alert lookout down stream. The idea is to travel with the current without getting sucked into the rough ripple central to any big rapids. Quick pole work will help stave off collision with obstacles and aid the raft past back eddies and whirlpools. If it looks like the river enters a canyonous region stop and reconnoiter the course below before proceeding.

Fording is wet, sometimes dangerous and hard labor; however, it certainly adds to a wilderness outing's adventure. The pioneers who explored North America perfected the simple techniques illustrated in this article, sometimes committing their families' lives and belongings to a major raft trip down a formidable river. We survivalists can learn from their experience and learn to handle fording with confidence. ●

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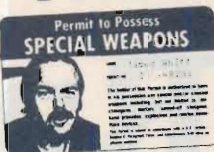
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Staff Report

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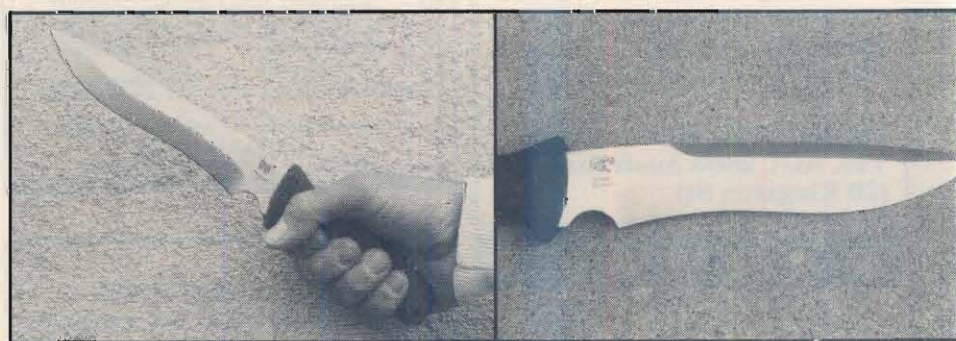
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